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## Repair Manual A5 2025 ➤

### Communication

Edition 07.2024

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## List of Workshop Manual Repair Groups

### Repair Group

00 - General, Technical Data

91 - Communication



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Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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## 00 – General, Technical Data

### 1 Safety Precautions

(Edition 07.2024)

⇒ [“1.1 Safety Precautions”, page 1](#)

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#### 1.1 Safety Precautions

Note the safety precautions. Refer to ⇒ Safety Precautions and Repair Information; Rep. Gr. 00 ; Safety Precautions .



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## 2 Repair Information

⇒ ["2.1 Repair Information", page 2](#)

### 2.1 Repair Information

Note the repair information. Refer to ⇒ Rep. Gr. 00 ; Repair Information .

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## 3 Electrical Components

⇒ **"3.1 Diagnostic Entries", page 3**

### 3.1 Diagnostic Entries

**Diagnostic entry with the Vehicle Diagnostic Tester.**

- ◆ Turn on and connect the Vehicle Diagnostic Tester.
- ◆ Switch the ignition on.
- ◆ Select "Diagnostic" operating mode and "Start diagnostics".
- ◆ Select the "Test plan" tab.
- ◆ Select the "select individual test" button and choose the test program under "diagnostic-capable systems".

**Test programs according to components/control modules**

- ◆ 1. Volume Control 1 E980, replacing
- ◆ 2. J453 - Multifunction Steering Wheel Control Module, replacing
- ◆ 3. J525 - Digital Sound System Control Module, replacing
- ◆ 4. J676 - Chip Card Reader Control Module, replacing
- ◆ 5. J685 - Front Information Display Control Head, replacing
- ◆ 6. J787 - Digital Sound System Control Module 2, replacing
- ◆ 7. J794 - Information Electronics Control Module 1, replacing
- ◆ 8. J949 - Control Module for Emergency Call Module and Communication Unit, replacing
- ◆ 9. J1060 - Front Information Display Control Head 2, replacing
- ◆ 10. Telephone Baseplate, replacing
- ◆ 11. J1158 - Steering Wheel Touch Recognition Control Module, replacing
- ◆ 12. U41 USB Connection 1, replacing

#### **1. Volume Control 1 E980, replacing**

- ◆ 005F - Information Electronics Control Module 1 - J794 (HCP3, contains 0017, 8125, 813F, 8153)
- ◆ General Functions
- ◆ 0693 - Volume Control 1, replacing

#### **2. J453 - Multifunction Steering Wheel Control Module, replacing**

- ◆ 8119 - Multifunction Steering Wheel Control Module 3 - J453
- ◆ 8119 - Multifunction Steering Wheel Control Module 3, functions
- ◆ 8119 - Control module, replacing

#### **3. J525 - Digital Sound System Control Module, replacing**

- ◆ 005F - Information Electronics Control Module 1 - J794 (HCP3, contains 0017, 8125, 813F, 8153)
- ◆ General Functions
- ◆ 0648 - Digital Sound System Control Module, replacing (J525)

**4. J676 - Chip Card Reader Control Module, replacing**

- ◆ 005F - Information Electronics Control Module 1 - J794 (HCP3, contains 0017, 8125, 813F, 8153)
- ◆ General Functions
- ◆ 0642 - Chip Card Reader Control Module, replacing

**5. J685 - Front Information Display Control Head, replacing**

- ◆ 005F - Information Electronics Control Module 1 - J794 (HCP3, contains 0017, 8125, 813F, 8153)
- ◆ 0017 - Instrument Cluster - SWC12 (HCP3)
- ◆ 0017 - Instrument Cluster, Functions
- ◆ 0017 - Control Module, Replacing

**6. J787 - Digital Sound System Control Module 2, replacing**

- ◆ 005F - Information Electronics Control Module 1 - J794 (HCP3, contains 0017, 8125, 813F, 8153)
- ◆ General Functions
- ◆ 07D4 - Digital Sound System Control Module 2, replacing (J787)

**7. J794 - Information Electronics Control Module 1, replacing**

- ◆ 005F - Information Electronics Control Module 1 - J794 (HCP3, contains 0017, 8125, 813F, 8153)
- ◆ General Functions
- ◆ 005F - Control Module, replacing

**8. J949 - Control Module for Emergency Call Module and Communication Unit, replacing**

- ◆ 0075 - Control Module for Emergency Call Module and Communication Unit - J949
- ◆ 0075 - Control Module for Emergency Call Module and Communication Unit, functions
- ◆ 0075 - Control Module for Emergency Call Module and Communication Unit, replacing

**9. J1060 - Front Information Display Control Head 2, replacing**

- ◆ 8147 - Front Information Display Control Head 2 - J1060
- ◆ 8147 - Functions
- ◆ 8147 - Control Module, replacing

**10. Telephone Baseplate, replacing**

- ◆ 00DE - Mobile Device Charger 1 - J1146
- ◆ 00DE - Mobile Device Charger 1, functions
- ◆ 00DE - Control Module, replacing

**11. J1158 - Steering Wheel Touch Recognition Control Module, replacing**

- ◆ 8119 - Multifunction Steering Wheel Control Module 3 - J453
- ◆ 8119 - Multifunction Steering Wheel Control Module 3, functions
- ◆ 073E - Steering Wheel Touch Recognition Control Module, replacing

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## 12. U41 USB Connection 1, replacing

- ◆ 005F - Information Electronics Control Module 1 - J794  
(HCP3, contains 0017, 8125, 813F, 8153)
- ◆ General Functions
- ◆ 0743 - Media Socket, replacing

### Completion of the test program

- ◆ Switch off the ignition.
- ◆ Disconnect the Vehicle Diagnostic Tester from the diagnostic connection.



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## 91 – Communication

### 1 Safety Precautions and Repair Information

⇒ ["1.1 Safety Precautions", page 6](#)

⇒ ["1.2 Repair Information", page 6](#)

#### 1.1 Safety Precautions

Note the safety precautions. Refer to ⇒ Safety Precautions and Repair Information; Rep. Gr. 00 ; Safety Precautions .

#### 1.2 Repair Information

Note the repair information. Refer to ⇒ Rep. Gr. 00 ; Repair Information .



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## 2 Component locations

⇒ [“2.1 Component Location Overview - Components/Control Modules in Front Section of Vehicle”, page 7](#)

⇒ [“2.2 Component Location Overview - Components/Control Modules in Center Section of Vehicle”, page 7](#)

⇒ [“2.3 Component Location Overview of Components / Control Modules in Rear Area of the Vehicle, Avant”, page 10](#)

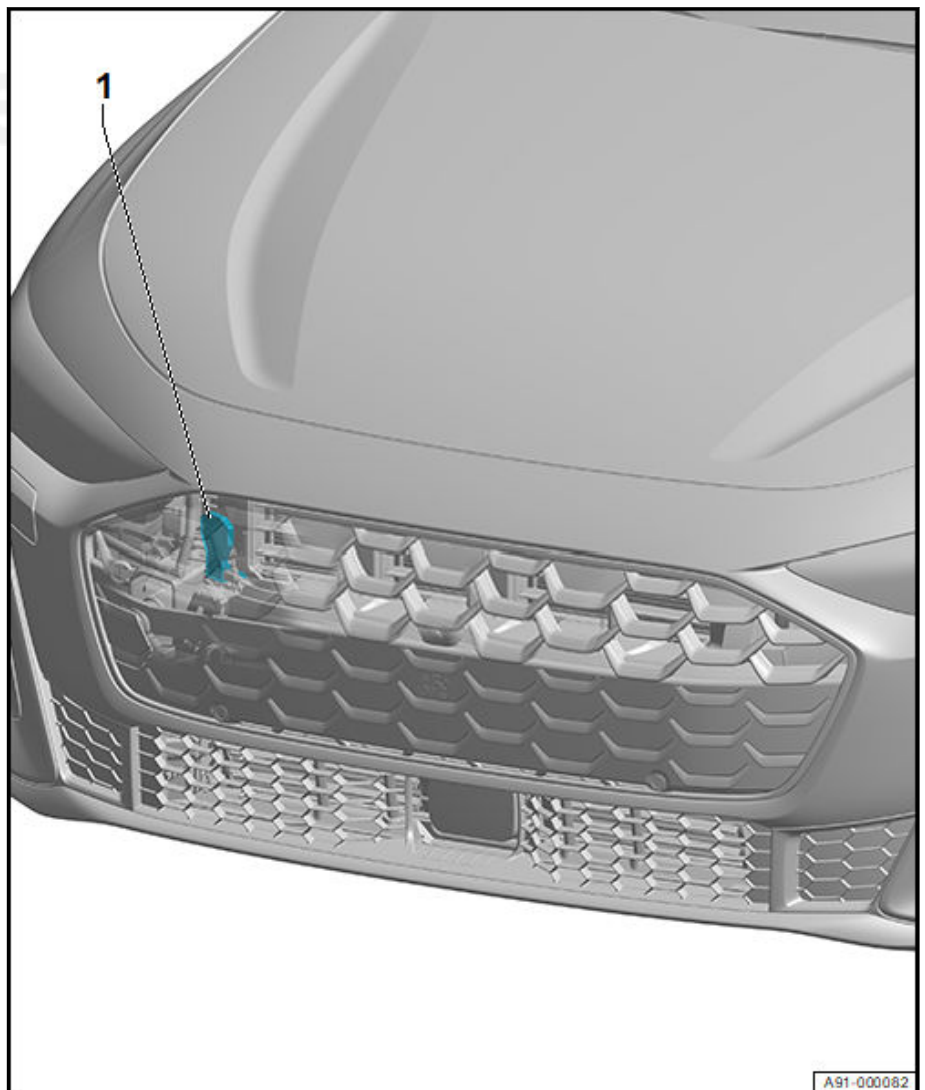
⇒ [“2.4 Component Location Overview of Components / Control Modules in Rear Area of the Vehicle, Sedan”, page 12](#)

### 2.1 Component Location Overview - Components/Control Modules in Front Section of Vehicle

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#### 1 - Telephone Antenna - R65-

- Refer to ⇒ Rep. Gr. 91 ; Telephone Antenna R65, Removing and Installing .



### 2.2 Component Location Overview - Components/Control Modules in Center Section of Vehicle

## 1 - Front Treble Speaker

- ☐ Left Front Treble Speaker - R20-
- ☐ Right Front Treble Speaker - R22-
- ☐ Refer to ⇒ Rep. Gr. 91 ; Left and Right Front Treble Speaker R20/R22, Removing and Installing .

## 2 - Near Field Communication Antenna - R269-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Near Field Communication Antenna R269, Removing and Installing .

## 3 - Midrange Speaker 2, Front

- ☐ Left Front Midrange Speaker 2 - R276-
- ☐ Right Front Midrange Speaker 2 - R277-
- ☐ Refer to ⇒ Rep. Gr. 91 ; Midrange Speaker 2 in the Front - R276/R277, Removing and Installing .

## 4 - Center Front Speaker - RX25-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Center Front Speaker - RX25, Removing and Installing .

## 5 - Toll Registration Sensor - G459-

## 6 - Antenna for External Communication with Vehicle - R407-

- ☐ Refer to ⇒ ["3.31 Antenna for Internal and External Communication with Vehicle R407, Removing and Installing", page 42](#)

## 7 - Antenna 2 for External Communication with Vehicle - R394-

- ☐ Refer to ⇒ ["3.33 Antenna 2 for External Communication with Vehicle R394, Removing and Installing", page 42](#)

## 8 - Microphone Unit in Front Roof Module - R164-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Microphone Unit in Front Roof Module - R164, Removing and Installing .

## 9 - USB Charging Socket in Headliner - U104-

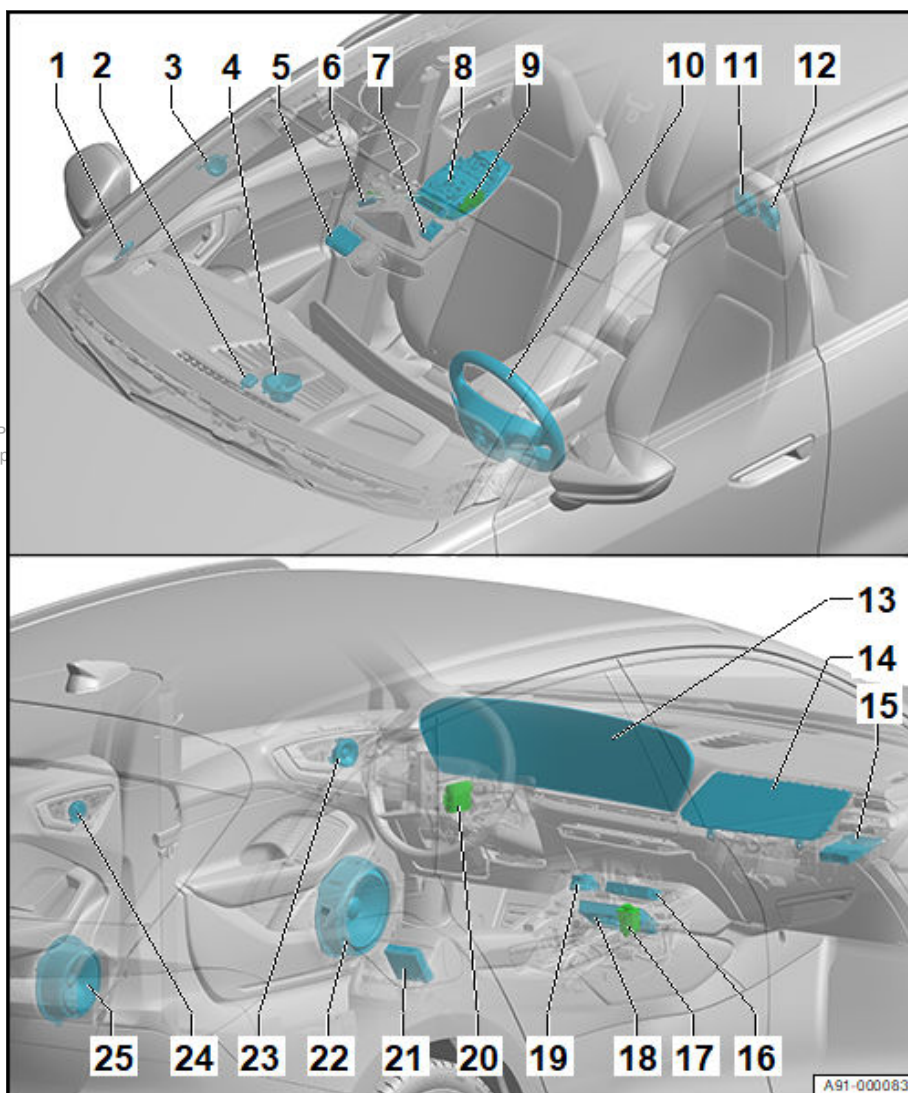
- ☐ Refer to ⇒ ["3.47.1 USB Charging Socket in Headliner - U104, Removing and Installing", page 53](#)

## 10 - Steering Wheel

- ☐ Left Multifunction Buttons on Steering Wheel - E440-
- ☐ Right Multifunction Buttons on Steering Wheel - E441-
- ☐ Upshift Paddle Switch - E755-
- ☐ Downshift Paddle Switch - E756-
- ☐ Steering Wheel Touch Recognition Control Module - J1158-
- ☐ Refer to ⇒ Rep. Gr. 91 ; Overview - Multifunction Steering Wheel .

## 11 - Speaker 2 in Front Headrest

- ☐ Speaker 2 in Left Front Headrest - R318-



- ☐ Speaker 2 in Right Front Headrest - R320-
- ☐ Refer to ⇒ ["3.19.1 Speaker in the Left/Right Front Headrest R317/R318/R319/R320, Removing and Installing", page 35](#)

## 12 - Speaker 1 in Front Headrest

- ☐ Speaker 1 in Left Front Headrest - R317-
- ☐ Speaker 1 in Right Front Headrest - R319-
- ☐ Refer to ⇒ ["3.19.1 Speaker in the Left/Right Front Headrest R317/R318/R319/R320, Removing and Installing", page 35](#)

## 13 - Front Information Display Control Head - J685-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Front Information Display Control Head J685, Removing and Installing .

## 14 - Front Information Display Control Head 2 - J1060-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Front Information Display Control Head 2 - J1060, Removing and Installing .

## 15 - Chip Card Reader Control Module - J676-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Chip Card Reader Control Module J676, Removing and Installing .

## 16 - USB Connection 1 - U41-

- ☐ Refer to ⇒ Rep. Gr. 91 ; USB Connection 1 U41, Removing and Installing .

## 17 - Volume Control 1 - E980-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Volume Control 1 - E980, Removing and Installing .

## 18 - Mobile Device Charger 1 - J1146-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Telephone Baseplate, Removing and Installing .

## 19 - Emergency Call Module Speaker - R335-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Speaker R335, Removing and Installing .

## 20 - Cellular Telephone Amplifier - R86-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Cellular Telephone Amplifier R86, Removing and Installing .

## 21 - USB Charging Socket 1 - U37-

- ☐ Refer to ⇒ Rep. Gr. 91 ; USB Charging Socket 1 -U37-, Removing and Installing

## 22 - Front Bass Speaker

- ☐ Left Front Bass Speaker - R21-
- ☐ Right Front Bass Speaker - R23-
- ☐ Refer to ⇒ Rep. Gr. 91 ; Left and Right Front Bass Speaker R21/R23, Removing and Installing .

## 23 - Front Midrange Speaker

- ☐ Left Front Midrange Speaker - R103-
- ☐ Right Front Midrange Speaker - R104-
- ☐ Refer to ⇒ Rep. Gr. 91 ; Left and Right Front Midrange Speaker R103/R104, Removing and Installing .

## 24 - Rear Treble Speaker

- ☐ Left Rear Treble Speaker - R14-
- ☐ Right Rear Treble Speaker - R16-
- ☐ Refer to ⇒ Rep. Gr. 91 ; Left and Right Rear Treble Speaker R14/R16, Removing and Installing .

## 25 - Rear Bass Speaker

- ☐ Left Rear Bass Speaker - R15-
- ☐ Right Rear Bass Speaker - R17-
- ☐ Refer to ⇒ Rep. Gr. 91 ; Left and Right Rear Bass Speaker R15/R17, Removing and Installing .

## 2.3 Component Location Overview of Components / Control Modules in Rear Area of the Vehicle, Avant

⇒ [“2.3.1 Component Location Overview - Components/Control  
Modules in Rear Section of Vehicle”, page 10](#)

### 2.3.1 Component Location Overview - Components/Control Modules in Rear Section of Vehicle



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#### 1 - Telephone Antenna Module, Telematics - RX23-

- ❑ Refer to ⇒ Rep. Gr. 91 ; Telephone Antenna Module, Telematics - RX23, Removing and Installing .

#### 2 - Left Effects Speaker - R209-

- ❑ Refer to ⇒ Rep. Gr. 91 ; Left and Right Effects Speaker R209/R210, Removing and Installing .

#### 3 - Windshield Antenna Suppression Filter - C18-

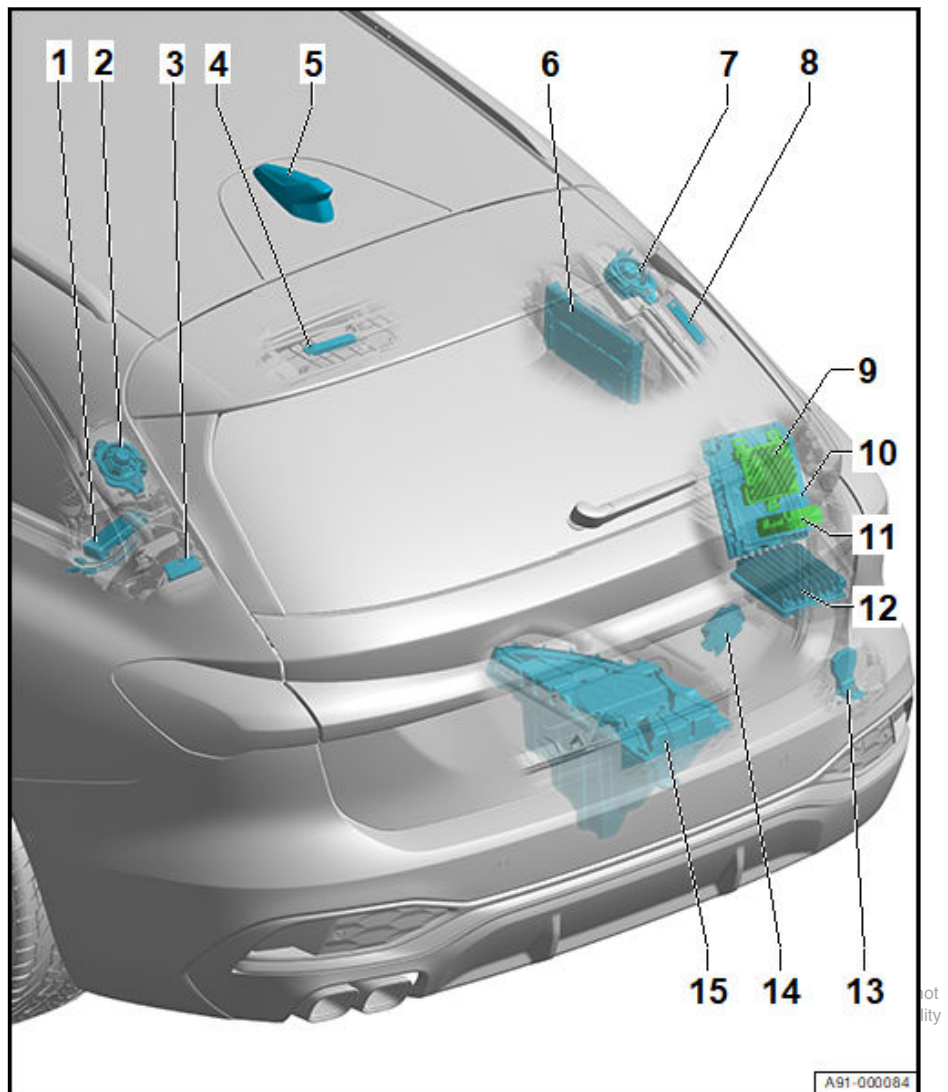
- ❑ Refer to ⇒ Rep. Gr. 91 ; Windshield Antenna Suppression Filter C18, Removing and Installing .

#### 4 - Antenna Amplifier 2 - R111-

- ❑ With Radio Antenna 2 - R93- integrated in the rear window.
- ❑ Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier 2 R111, Removing and Installing .

#### 5 - Roof Antenna - RX5-

- ❑ Refer to ⇒ Rep. Gr. 91 ; Roof Antenna -RX5-, Removing and Installing



#### 6 - Control Module for Emergency Call Module and Communication Unit - J949-

- ❑ Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Speaker R335, Removing and Installing .

#### 7 - Right Effects Speaker - R210-

- ❑ Refer to ⇒ Rep. Gr. 91 ; Left and Right Effects Speaker R209/R210, Removing and Installing .

#### 8 - Antenna Amplifier - R24-

- ❑ with Antenna - R11- integrated in the rear window.
- ❑ Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier R24, Removing and Installing .

#### 9 - Digital Sound System Control Module 2 - J787-

- ❑ Refer to ⇒ Rep. Gr. 91 ; Digital Sound System Control Module 2 J787, Removing and Installing .

#### 10 - Information Electronics Control Module 1 - J794-

- ❑ Refer to ⇒ Rep. Gr. 91 ; Information Electronics Control Module 1 J794, Removing and Installing .

#### 11 - (Not for North America Market)

- ❑ Only for vehicles with China equipment.

#### 12 - Digital Sound System Control Module - J525-

- ❑ Refer to ⇒ Rep. Gr. 91 ; Digital Sound System Control Module J525, Removing and Installing

#### 13 - Emergency Call Module Antenna 3 - R323-

- ❑ Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Antenna 3 R323, Removing and Installing .

**14 - AM Frequency Filter - R177-**

- ❑ Refer to ⇒ Rep. Gr. 91 ; AM Frequency Filter R177, Removing and Installing .

**15 - Subwoofer - RX28-**

- ❑ Refer to ⇒ Rep. Gr. 91 ; Subwoofer RX28, Removing and Installing .

## **2.4        Component Location Overview of               Components / Control Modules in Rear               Area of the Vehicle, Sedan**

⇒ **"2.4.1 Component Location Overview - Components/Control  
Modules in Rear Section of Vehicle", page 12**

### **2.4.1      Component Location Overview - Components/Control Modules in Rear               Section of Vehicle**



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#### 1 - Left Effects Speaker - R209-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Left and Right Effects Speaker R209/R210, Removing and Installing .

#### 2 - (Not for North America Market)

- ☐ Only for vehicles with China equipment.

#### 3 - Windshield Antenna Suppression Filter - C18-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Windshield Antenna Suppression Filter C18, Removing and Installing .

#### 4 - Antenna Amplifier 2 - R111-

- ☐ With Radio Antenna 2 - R93- integrated in the rear window.
- ☐ Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier 2 R111, Removing and Installing .

#### 5 - Roof Antenna - RX5-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Roof Antenna -RX5-, Removing and Installing

#### 6 - Right Effects Speaker - R210-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Left and Right Effects Speaker R209/R210, Removing and Installing .

#### 7 - Antenna Amplifier - R24-

- ☐ with Antenna - R11- integrated in the rear window.
- ☐ Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier R24, Removing and Installing .

#### 8 - Control Module for Emergency Call Module and Communication Unit - J949-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Speaker R335, Removing and Installing .

#### 9 - Digital Sound System Control Module 2 - J787-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Digital Sound System Control Module 2 J787, Removing and Installing .

#### 10 - Information Electronics Control Module 1 - J794-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Information Electronics Control Module 1 J794, Removing and Installing .

#### 11 - (Not for North America Market)

- ☐ Only for vehicles with China equipment.

#### 12 - Digital Sound System Control Module - J525-

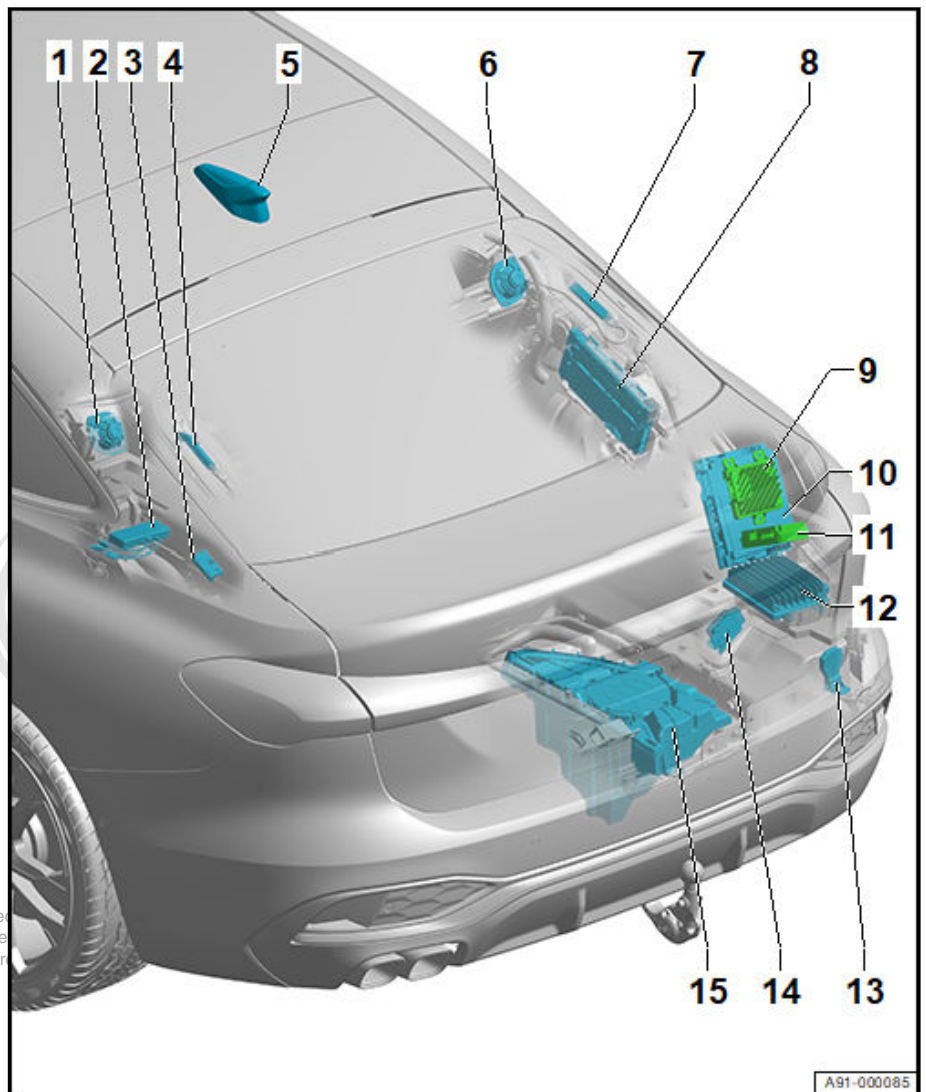
- ☐ Refer to ⇒ Rep. Gr. 91 ; Digital Sound System Control Module J525, Removing and Installing

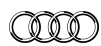
#### 13 - Emergency Call Module Antenna 3 - R323-

- ☐ Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Antenna 3 R323, Removing and Installing .

#### 14 - AM Frequency Filter - R177-

- ☐ Refer to ⇒ Rep. Gr. 91 ; AM Frequency Filter R177, Removing and Installing .





## 15 - Subwoofer - RX28-

- Refer to ⇒ Rep. Gr. 91 ; Subwoofer RX28, Removing and Installing .



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**erWin** 

### 3 Components/Control Modules

⇒ [“3.1 Front Information Display Control Head J685, Removing and Installing”, page 18](#)

⇒ [“3.2 Front Information Display Control Head 2 - J1060, Removing and Installing, JH1”, page 18](#)

⇒ [“3.3 Information Electronics Control Module 1 J794, Removing and Installing”, page 20](#)

⇒ [“3.4 Information Electronics Control Module Bracket, Removing and Installing”, page 21](#)

⇒ [“3.5 Volume Control 1 - E980, Removing and Installing”, page 22](#)

⇒ [“3.6 Digital Sound System Control Module J525, Removing and Installing, Premium Sound, Premium Sound with Technology Package”, page 23](#)

⇒ [“3.7 Digital Sound System Control Module 2 - J787, Removing and Installing, Premium Sound with Technology Package”, page 25](#)

⇒ [“3.8 Left and Right Front Treble Speaker R20/R22, Removing and Installing”, page 26](#)

⇒ [“3.9 Left and Right Rear Treble Speaker R14/R16, Removing and Installing”, page 26](#)

⇒ [“3.10 Left/Right Front Midrange Speaker R103/R104, Removing and Installing, Premium Sound, Premium Sound with Technology Package”, page 27](#)

⇒ [“3.11 Left/Right Front Midrange Speaker 2 - R276/R277, Removing and Installing, Premium Sound, Premium Sound with Technology Package”, page 28](#)

⇒ [“3.12 Left and Right Rear Bass Speaker R15/R17, Removing and Installing”, page 29](#)

⇒ [“3.13 Left and Right Front Bass Speaker R21/R23, Removing and Installing”, page 30](#)

⇒ [“3.14 Subwoofer RX28, Removing and Installing”, page 31](#)

⇒ [“3.15 Left/Right Effects Speaker R209/R210, Removing and Installing, Premium Sound, Premium Sound with Technology Package, Avant”, page 31](#)

⇒ [“3.16 Left/Right Effects Speaker R209/R210, Removing and Installing, Premium Sound, Premium Sound with Technology Package, Sedan”, page 32](#)

⇒ [“3.17 Center Front Speaker RX25, Removing and Installing, Standard Sound, Premium Sound”, page 34](#)

⇒ [“3.18 Center Front Speaker RX25, Removing and Installing, Premium Sound with Technology Package”, page 35](#)

⇒ [“3.19 Speaker in the Left/Right Front Headrest R317/R318/R319/R320, Removing and Installing, Premium Sound with Technology Package”, page 35](#)

⇒ [“3.20 Interior Microphone R74, Removing and Installing, Premium Sound, Premium Sound with Technology Package”, page 36](#)

⇒ [“3.21 Roof Antenna -RX5-, Removing and Installing”, page 36](#)

⇒ [“3.22 Antenna Amplifier R24, Removing and Installing”, page 37](#)

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- ⇒ [“3.23 Antenna Amplifier 2 - R111, Removing and Installing, Avant”, page 38](#)
- ⇒ [“3.24 Antenna Amplifier 2 - R111, Removing and Installing, Sedan”, page 39](#)
- ⇒ [“3.25 GPS Antenna R50, Removing and Installing”, page 39](#)
- ⇒ [“3.26 Near Field Communication Antenna R269, Removing and Installing”, page 40](#)
- ⇒ [“3.27 Satellite Tuner Antenna R172, Removing and Installing”, page 41](#)
- ⇒ [“3.28 Digital Radio Antenna R183, Removing and Installing”, page 41](#)
- ⇒ [“3.29 Vehicle Interior Communication Antenna 2 R365, Removing and Installing”, page 41](#)
- ⇒ [“3.30 Vehicle Interior Communication Antenna 3- R406, Removing and Installing”, page 41](#)
- ⇒ [“3.31 Antenna for Internal and External Communication with Vehicle R407, Removing and Installing”, page 42](#)
- ⇒ [“3.32 Antenna for External Communication with Vehicle - R387, Removing and Installing”, page 42](#)
- ⇒ [“3.33 Antenna 2 for External Communication with Vehicle R394, Removing and Installing”, page 42](#)
- ⇒ [“3.34 Antenna for Bluetooth Communication - R396, Removing and Installing”, page 43](#)
- ⇒ [“3.35 Emergency Call Module Antenna R263, Removing and Installing”, page 43](#)
- ⇒ [“3.36 Emergency Call Module Antenna 2 R322, Removing and Installing”, page 43](#)
- ⇒ [“3.37 Emergency Call Module Antenna 3 R323, Removing and Installing”, page 44](#)
- ⇒ [“3.38 Telephone Antenna R65, Removing and Installing, Audi phone box”, page 44](#)
- ⇒ [“3.39 Microphone Unit in Front Roof Module R164, Removing and Installing”, page 46](#)
- ⇒ [“3.40 Telephone Baseplate, Removing and Installing, Audi Phone Box, Audi Phone Box Light”, page 46](#)
- ⇒ [“3.41 Cellular Telephone Amplifier R86, Removing and Installing, Audi Phone Box”, page 48](#)
- ⇒ [“3.42 Chip Card Reader Control Module J676, Removing and Installing”, page 48](#)
- ⇒ [“3.43 Left/Right Multifunction Buttons on Steering Wheel E440 / E441, Removing and Installing”, page 49](#)
- ⇒ [“3.44 Upshift and Downshift Paddle Switch E755/ E756, Removing and Installing”, page 51](#)
- ⇒ [“3.45 USB Connection 1 U41, Removing and Installing”, page 52](#)
- ⇒ [“3.46 USB Charging Socket 1 -U37-, Removing and Installing”, page 53](#)
- ⇒ [“3.47 USB Charging Socket in Headliner - U104, Removing and Installing”, page 53](#)
- ⇒ [“3.48 Control Module for Emergency Call Module and Communication Unit J949, Removing and Installing”, page 54](#)

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⇒ [“3.49 Bracket for Control Module for Emergency Call Module and Communication Unit, Removing and Installing”, page 55](#)

⇒ [“3.50 Emergency Call Module Speaker R335, Removing and Installing”, page 56](#)

⇒ [“3.51 Telematics Emergency Battery A16, Removing and Installing”, page 57](#)

⇒ [“3.52 Telephone Antenna Module, Telematics - RX23, Removing and Installing”, page 58](#)

⇒ [“3.53 Windshield Antenna Suppression Filter C18, Removing and Installing”, page 59](#)

⇒ [“3.54 AM Frequency Filter R177, Removing and Installing”, page 60](#)

⇒ [“3.55 Toll Registration Sensor - G459, Removing and Installing”, page 61](#)

### 3.1 Front Information Display Control Head J685, Removing and Installing

The Front Information Display Control Head - J685- is integrated in the instrument cluster and cannot be removed and installed separately.

---

If the Front Information Display Control Head - J685- is replaced, perform the test plan for replacing the control module:

- Perform the “control module, replacing” function using the  
⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

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#### Continuation

- Remove or install the front display unit and control head.  
Refer to ⇒ Electrical Equipment; Rep. Gr. 90 ; Instrument Cluster; Instrument Cluster with Instrument Cluster Control Module J285, Removing and Installing .

### 3.2 Front Information Display Control Head 2 - J1060, Removing and Installing, JH1

⇒ [“3.2.1 Front Information Display Control Head 2 - J1060, Removing and Installing”, page 18](#)

#### 3.2.1 Front Information Display Control Head 2 - J1060, Removing and Installing

##### Removing

---

If the Front Information Display Control Head 2 - J1060- is replaced, perform the test plan for replacing the control module:

- Perform the “control module, replacing” function using the ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

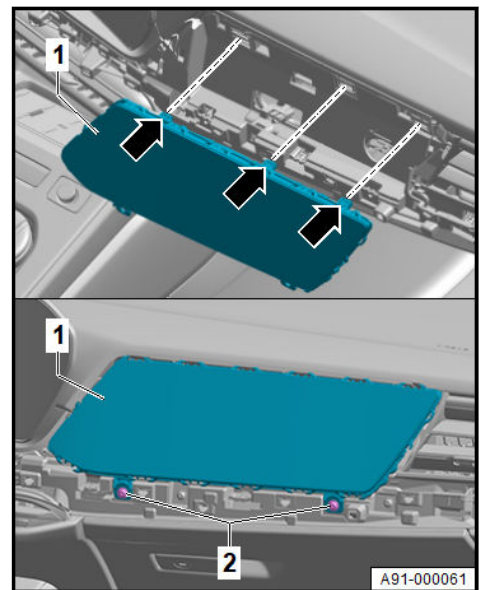
#### Continuation

- Remove the instrument panel decorative trim on the front passenger side. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Instrument Panel; Overview - Instrument Panel .

- Remove the bolts -2-.
- Unclip the display -1- from the retainers -arrows- using a suitable trim removal wedge and remove until the connector is accessible.

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- Disconnect the connector at the display -1-.



#### Installing

Install in the reverse order of removal, while noting the following:

If the Front Information Display Control Head 2 - J1060- was replaced, complete the test plan for replacing the control module:

- Complete the “control module, replacing” function using the ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .



## Continuation

### Tightening Specifications

Components	Tightening Specification
Display on the instrument panel	3 Nm

## 3.3 Information Electronics Control Module 1 J794, Removing and Installing

### Special tools and workshop equipment required

- ♦ Fiber-Optic Repair Set - Connector Protective Caps - VAS 6223/9- .

### Removing

If the Information Electronics Control Module 1 - J794- is being replaced, perform the test plan for replacing the control module:

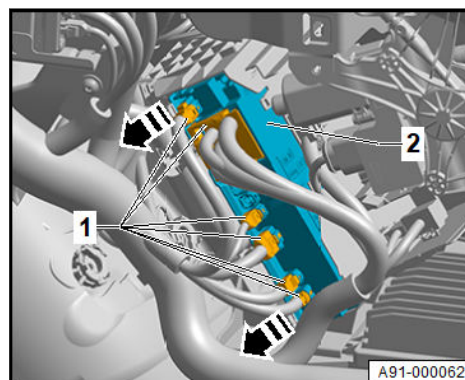
- Perform the "control module, replacing" function using the  
⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

### Continuation

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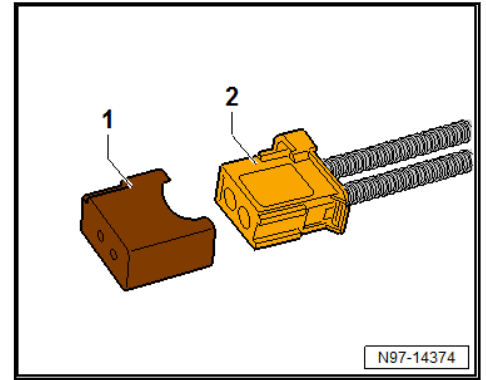
- Remove the luggage compartment side trim panel. Refer to  
⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartments;  
Overview - Luggage Compartment side Trim Panel .

- Disconnect the connectors -1-.
- Release the catches on the bracket -arrows-.
- Remove the Information Electronics Control Module 1 - J794- -2-.





- Connect the Fiber-Optic Repair Set - Connector Protective Caps - VAS 6223/9- -1- to the connector MOST bus -2-.



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## Installing

Install in the reverse order of removal, while noting the following:

**If the Information Electronics Control Module 1 - J794- was replaced, complete the test plan for replacing the control module:**

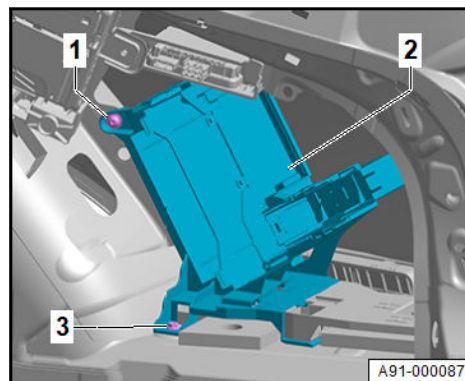
- Complete the “control module, replacing” function using the ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

## 3.4 Information Electronics Control Module Bracket, Removing and Installing

### Removing

- Remove the Information Electronics Control Module 1 - J794- . Refer to ⇒ Rep. Gr. 91 ; Information Electronics Control Module 1 -J794-, Removing and Installing .
- Remove the Digital Sound System Control Module 2 - J787- . Refer to ⇒ Rep. Gr. 91 ; Digital Sound System Control Module 2 - J787, Removing and Installing .
- Remove the Digital Sound System Control Module - J525- . Refer to⇒ Rep. Gr. 91 ; Digital Sound System Control Module - J525, Removing and Installing .
- Remove the Towing Recognition Control Module - J345- . Refer to ⇒ Body Exterior; Rep. Gr. 66 ; Trailer Hitch; Towing Recognition Control Module J345, Removing and Installing .
- QCU Differential Lock

- Loosen the bolt -1- and the nut -3-.
- Remove the bracket -2-.



---

### Installing

Install in the reverse order of removal, while noting the following:

---

### Tightening Specifications

Component	Tightening Specification
Bracket to body	3.5 Nm

## 3.5 Volume Control 1 - E980, Removing and Installing

### Removing

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If the Volume Control 1 - E980- is replaced, perform the test plan for replacing the control module:

- Perform the “control module, replacing” function using the ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

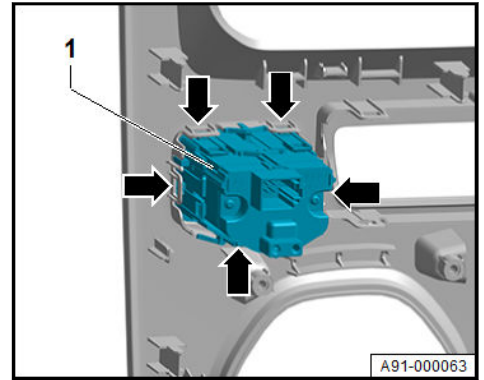
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### Continuation

- Remove the center console insert. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Center Console; Center Console Insert, Removing and Installing .
-

- Release the retainers -arrows-.
- Remove the volume control -1-.



## Installing

Install in the reverse order of removal, while noting the following:

If the Volume Control 1 - E980- was replaced, complete the test plan for replacing the control module:

- Complete the “control module, replacing” function using the  
⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

## 3.6 Digital Sound System Control Module J525, Removing and Installing, Premium Sound, Premium Sound with Technology Package

⇒ [“3.6.1 Digital Sound System Control Module J525, Removing and Installing”, page 23](#)

### 3.6.1 Digital Sound System Control Module J525, Removing and Installing

## Removing

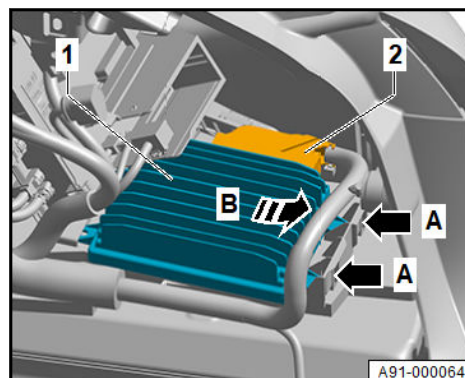
If the Digital Sound System Control Module - J525- is being replaced, perform the test plan for replacing the control module:

- Perform the “control module, replacing” function using the  
⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

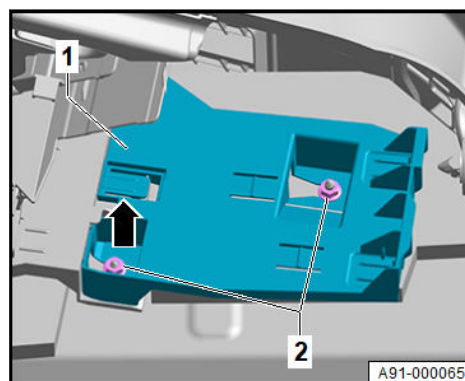
## Continuation

- Remove the luggage compartment side trim panel on the right. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Luggage Compartment Side Trim Panels, Removing and Installing J525.

- Disconnect the connectors -2-.
- Release the retaining tabs -arrows A-.
- Swivel out the Digital Sound System Control Module - J525-  
 -1- in the -direction of the arrow B-.



- Remove the nuts -2-
- Release the retaining tabs -arrow-.
- Remove the bracket -1-.



## Installing

Install in the reverse order of removal, while noting the following:

**If the Digital Sound System Control Module - J525- was replaced, complete the test plan for replacing the control module:**

- Complete the “control module, replacing” function using the  
 ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

## Continuation

### Tightening Specifications

Components	Tightening Specification
Nut bracket to body	3 Nm

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### 3.7 Digital Sound System Control Module 2 - J787, Removing and Installing, Premium Sound with Technology Package

⇒ [“3.7.1 Digital Sound System Control Module 2 -J787, Removing and Installing”, page 25](#)

#### 3.7.1 Digital Sound System Control Module 2 -J787, Removing and Installing

##### Removing

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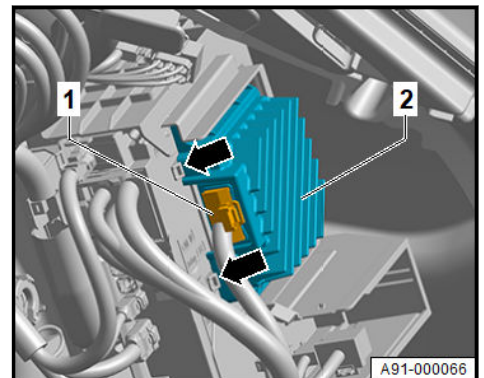
If the Digital Sound System Control Module 2 - J787- is being replaced, perform the test plan for replacing the control module:

- Perform the “control module, replacing” function using the ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

##### Continuation

- Remove the luggage compartment side trim panel on the right. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Luggage Compartment Side Trim Panels, Removing and Installing J525.

- Disconnect the connectors -1-.
- Release the retainers -arrows-.
- Remove the Digital Sound System Control Module 2 - J787-2-.



##### Installing

Install in the reverse order of removal, while noting the following:

If the Digital Sound System Control Module 2 - J787- was replaced, complete the test plan for replacing the control module:

- Complete the “control module, replacing” function using the  
⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

### 3.8 Left and Right Front Treble Speaker R20/R22, Removing and Installing

#### Tip

The Left Front Treble Speaker - R20- / Right Front Treble Speaker - R22- will be referred to as speakers in the information that follows.

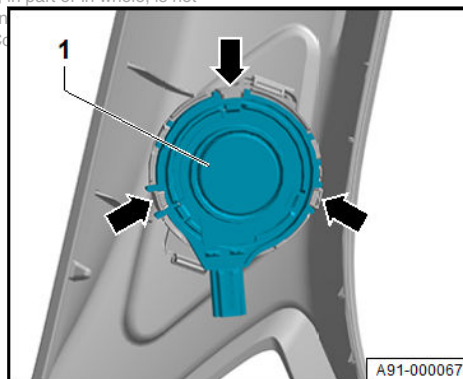
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#### Removing

- Remove the A-pillar trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; Overview - A-Pillar Trim Panel .
- 

- Press the tabs -arrows- and at the same time remove the speaker -1-.

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#### Installing

Install in reverse order of removal.

### 3.9 Left and Right Rear Treble Speaker R14/R16, Removing and Installing

#### Tip

The Left Rear Treble Speaker - R14- / Right Rear Treble Speaker - R16- will be called speakers in the information that follows.

---

#### Removing

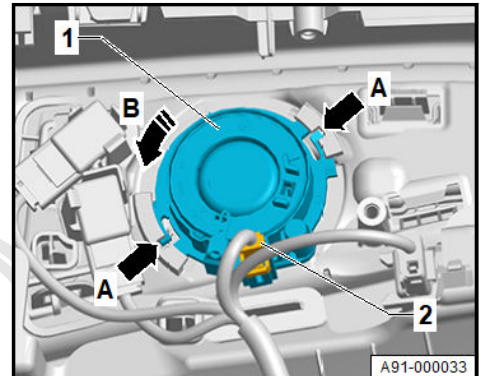
- Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .
-

### Vehicles with door window sun shade

- Remove the door window sun shade. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Door Window Sun Shade, Removing and Installing .

### Continuation for all vehicles

- Disconnect the connector -2-.
- Press the tabs -arrows A- and at the same time turn the speaker -1- counter-clockwise -arrow B-.



### Installing

Install in reverse order of removal.

## 3.10 Left/Right Front Midrange Speaker R103/R104, Removing and Installing, Premium Sound, Premium Sound with Technology Package

⇒ [“3.10.1 Left and Right Front Midrange Speaker R103/R104, Removing and Installing”, page 27](#)

### 3.10.1 Left and Right Front Midrange Speaker R103/R104, Removing and Installing

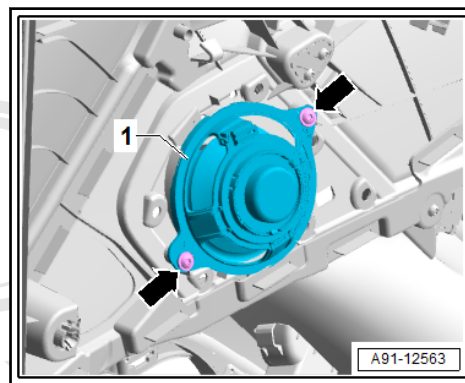
#### Tip

The Left Front Midrange Speaker - R103- / Right Front Midrange Speaker - R104- will be referred to as speakers in the information that follows.

### Removing

- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .

- Disconnect the connector from the speaker -1-.
- Remove the bolts -arrows-.
- Remove the speaker -1-.



## Installing

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Install in the reverse order of removal, while noting the following:

## Tightening Specifications

Components	Tightening Specification
Speaker on door trim panel	1.5 Nm

### 3.11 Left/Right Front Midrange Speaker 2 - R276/R277, Removing and Installing, Premium Sound, Premium Sound with Technology Package

⇒ ["3.11.1 Left/Right Front Midrange Speaker 2 - R276/R277, Removing and Installing", page 28](#)

#### 3.11.1 Left/Right Front Midrange Speaker 2 - R276/R277, Removing and Installing

##### Tip

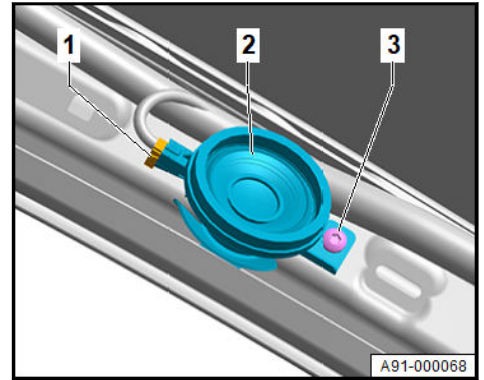
The Left Front Midrange Speaker 2 - R276- / Right Front Midrange Speaker 2 - R277- will be referred to as speakers in the information that follows.

## Removing

- Remove the A-pillar upper trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; A-Pillar Upper Trim Panel, Removing and Installing .



- Disconnect the connector -1-.
- Remove the bolt -3- and the speaker -2-.



### Installing

Install in reverse order of removal.

### Tightening Specifications

Components	Tightening Specification
Speaker on the body	2 Nm

## 3.12 Left and Right Rear Bass Speaker R15/R17, Removing and Installing

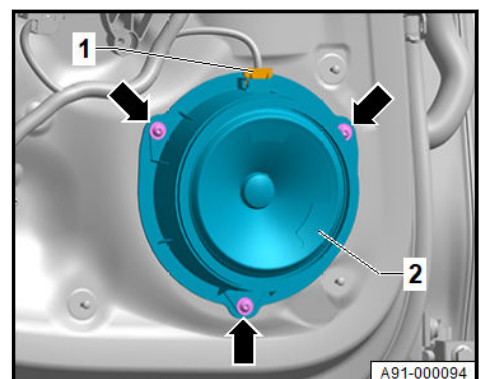
### Tip

The Left Rear Bass Speaker - R15- / Right Rear Bass Speaker - R17- will be referred to as speakers in the information that follows.

### Removing

- Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .

- Disconnect the connector -1-.
- Remove the bolts -arrows-.
- Remove the speaker -2-.



## Installing

Install in the reverse order of removal, while noting the following:

## Tightening Specifications

Components	Tightening Specification
Speaker on the door	2 Nm

### 3.13 Left and Right Front Bass Speaker R21/R23, Removing and Installing

#### Tip

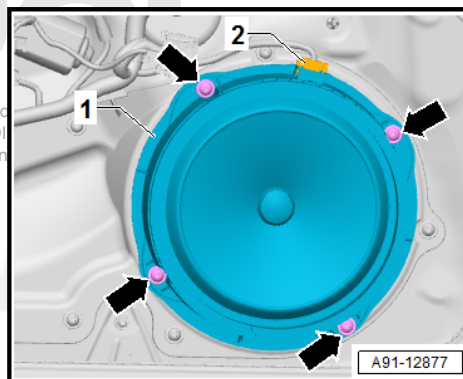
The Left Front Bass Speaker - R21- / Right Front Bass Speaker - R23- will be referred to as speakers in the information that follows.

## Removing

- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .

- Disconnect the connector -2-.
- Remove the bolts -arrows-.
- Remove the speaker -1-.

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## Installing

Install in the reverse order of removal, while noting the following:

## Tightening Specifications

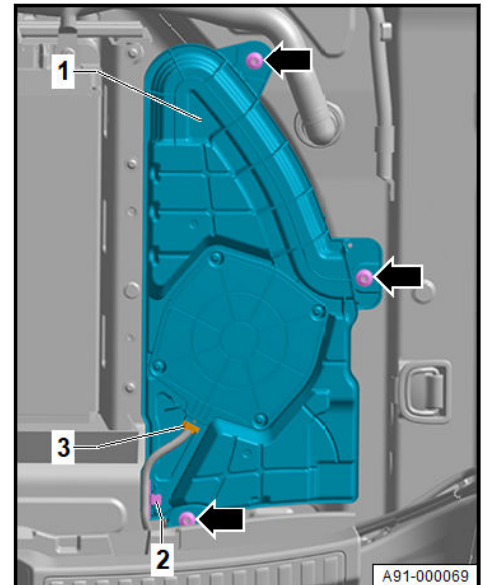
Components	Tightening Specification
Speaker on the door	2 Nm

### 3.14 Subwoofer RX28, Removing and Installing

#### Removing

- Remove the luggage compartment floor. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Luggage Compartment Floor, Removing and Installing .
- Remove the luggage compartment brace.

- Disconnect the connector -3-.
- Unclip the wire bracket -2-.
- Remove the nuts -arrows-.
- Remove the Subwoofer - RX28- -1-.



#### Installing

Install in the reverse order of removal, while noting the following:

#### Tightening Specifications

Components	Tightening Specification
Nuts on the subwoofer	4.5 Nm

### 3.15 Left/Right Effects Speaker R209/R210, Removing and Installing, Premium

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## Sound, Premium Sound with Technology Package, Avant

⇒ [“3.15.1 Left/Right Effects Speaker R209/R210, Removing and Installing”, page 32](#)

### 3.15.1 Left/Right Effects Speaker R209/R210, Removing and Installing

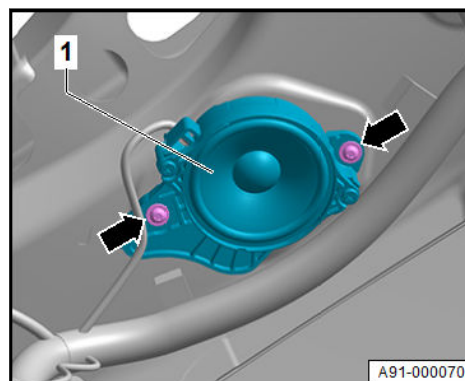
#### Tip

The Left Effects Speaker - R209- / Right Effects Speaker - R210- will be referred to as speakers in the information that follows.

#### Removing

- Remove the D-pillar trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; D-Pillar Trim Panel, Removing and Installing .

- Remove the bolts -arrows-.
- Remove the speaker -1- until the connector is accessible.
- Disconnect the connector from the speaker -1-.



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#### Installing

Install in the reverse order of removal, while noting the following:

#### Tightening Specifications

Components	Tightening Specification
Speaker on the body	2 Nm

### 3.16 Left/Right Effects Speaker R209/R210, Removing and Installing, Premium

## Sound, Premium Sound with Technology Package, Sedan

⇒ "3.16.1 Left/Right Effects Speaker R209/R210, Removing and Installing", page 33

### 3.16.1 Left/Right Effects Speaker R209/R210, Removing and Installing

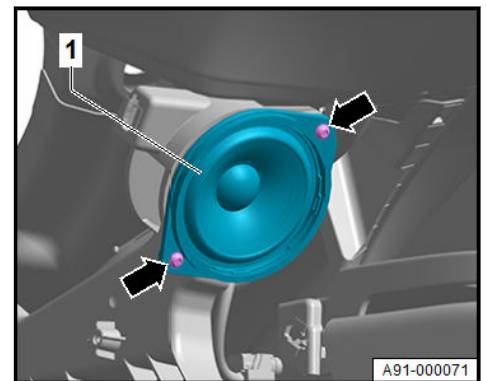
#### Tip

The Left Effects Speaker - R209- / Right Effects Speaker - R210- will be referred to as speakers in the information that follows.

#### Removing

- Remove the D-pillar trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; D-Pillar Trim Panel, Removing and Installing .

- Remove the bolts -arrows-.
- Remove the speaker -1- from the bracket until the connector is accessible.
- Disconnect the connector.



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Install in the reverse order of removal, while noting the following:

#### Tightening Specifications

Components	Tightening Specification
Speaker to bracket	1.5 Nm

### 3.17 Center Front Speaker RX25, Removing and Installing, Standard Sound, Premium Sound

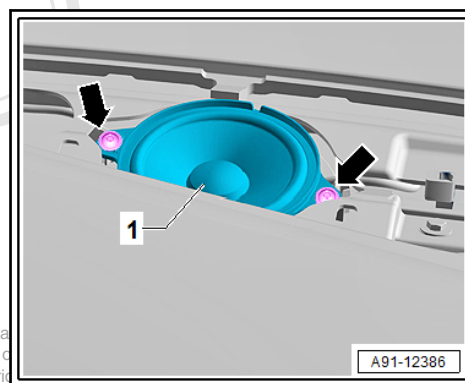
⇒ "3.17.1 Center Front Speaker RX25, Removing and Installing", page 34

#### 3.17.1 Center Front Speaker RX25, Removing and Installing

##### Removing

- Remove the center speaker trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Instrument Panel; Speaker Trim, Removing and Installing .

- Remove the bolts -arrows-.
- Remove the Center Front Speaker - RX25- -1-, until the connector is accessible.
- Disconnect the connector from the speaker -1-.



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##### Installing

Install in the reverse order of removal, while noting the following:

##### Tightening Specifications

Components	Tightening Specification
Speakers on the instrument panel	1.5 Nm

### 3.18 Center Front Speaker RX25, Removing and Installing, Premium Sound with Technology Package

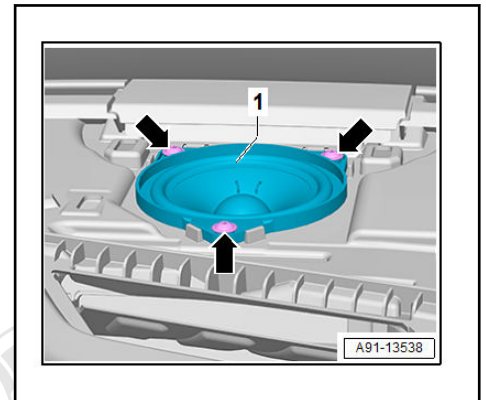
⇒ [“3.18.1 Center Front Speaker RX25, Removing and Installing”, page 35](#)

#### 3.18.1 Center Front Speaker RX25, Removing and Installing

##### Removing

- Remove the center speaker trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Instrument Panel; Speaker Trim, Removing and Installing .

- Remove the bolts -arrows-.
- Remove the Center Front Speaker - RX25- -1-, until the connector is accessible.
- Disconnect the connector from the speaker -1-.



##### Installing

Install in the reverse order of removal, while noting the following:

##### Tightening Specifications

Components	Tightening Specification
Speakers on the instrument panel	1.5 Nm

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### 3.19 Speaker in the Left/Right Front Headrest R317/R318/R319/R320, Removing and Installing, Premium Sound with Technology Package

⇒ [“3.19.1 Speaker in the Left/Right Front Headrest R317/R318/R319/R320, Removing and Installing”, page 35](#)

#### 3.19.1 Speaker in the Left/Right Front Headrest R317/R318/R319/R320, Removing and Installing

The Speakers in the Left/Right Front Headrest: Speaker 1 in Left Front Headrest - R317- / Speaker 2 in Left Front Headrest - R318- / Speaker 1 in Right Front Headrest - R319- / Speaker 2 in Right Front Headrest - R320- are integrated in the front headrests and cannot be removed and installed separately.

- Remove and install speakers in the front headrest. Refer to ⇒ Body Interior; Rep. Gr. 72 ; Front Seats; Headrests, Removing and Installing .

### 3.20 Interior Microphone R74, Removing and Installing, Premium Sound, Premium Sound with Technology Package

⇒ ["3.20.1 Interior Microphone R74, Removing and Installing", page 36](#)

#### 3.20.1 Interior Microphone R74, Removing and Installing

The Interior Microphone - R74- is integrated in the Microphone Unit in Front Roof Module - R164- and cannot be replaced separately.

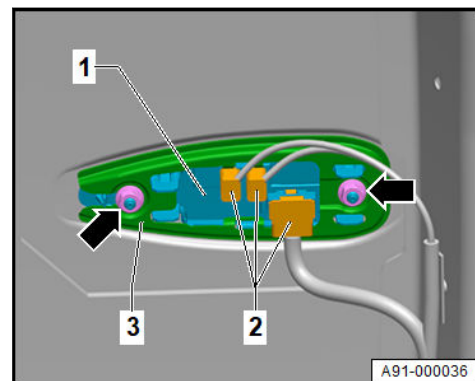
- Remove and install the Interior Microphone - R74- . Refer to ⇒ Rep. Gr. 91 ; Microphone Unit in Front Roof Module R164, Removing and Installing .

### 3.21 Roof Antenna -RX5-, Removing and Installing

#### Removing

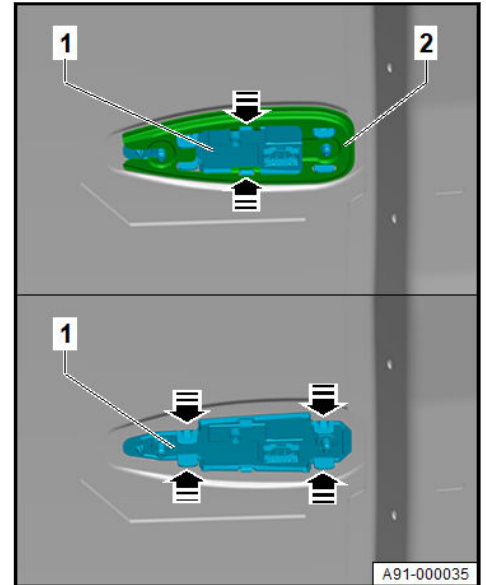
- Refer to ⇒ Body Interior; Rep. Gr. 70 ; Roof Trim Panels; Headliner, Lowering

- Depending on vehicle equipment, disconnect the antenna wires -2- present on the Roof Antenna - RX5- -1-.
- Remove the nuts -arrows A-.





- Release the hooks -arrows A- and remove the retaining plate -2-.
- Release the hooks -arrows B- and remove the roof antenna -1-.



## Installing

Install in the reverse order of removal, while noting the following:

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- Press on the roof antenna and retaining plate until they engage audibly.

## Tightening Specifications

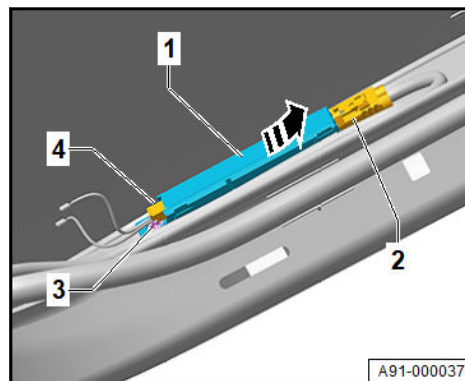
Component	Tightening Specification
Retaining plate on the roof antenna	4.5 Nm

## 3.22 Antenna Amplifier R24, Removing and Installing

### Removing

- Remove the rear lid side trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Rear Lid Side Trim Panel, Removing and Installing .

- Disconnect the connectors -2- and -4-.
- Loosen the bolt -3- a few turns.
- Remove the Antenna Amplifier - R24- -1- -arrow-.



## Installing

Install in the reverse order of removal, while noting the following:

## Tightening Specifications

Components	Tightening Specification
Antenna Amplifier Bolt to Rear Lid	2 Nm

## 3.23 Antenna Amplifier 2 - R111, Removing and Installing, Avant

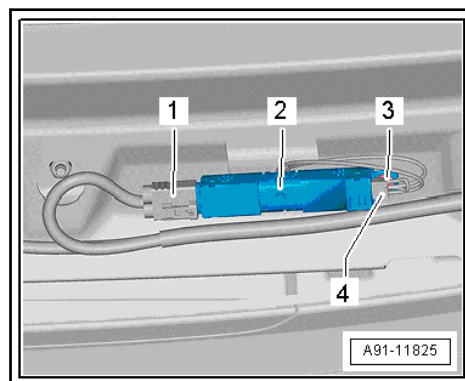
⇒ **"3.23.1 Antenna Amplifier 2 R111, Removing and Installing", page 38**

### 3.23.1 Antenna Amplifier 2 R111, Removing and Installing

#### Removing

- Remove the rear lid upper trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Rear Lid Upper Trim Panel, Removing and Installing .

- Disconnect the connectors -1- and -4-.
- Loosen the bolt -3- several turns.
- Remove the Antenna Amplifier 2 - R111- -2-.

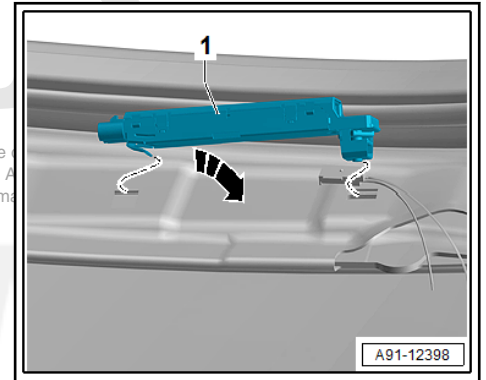


## Installing

Install in the reverse order of removal, while noting the following:

- Insert the antenna amplifier -1- into the recess -arrow- with the side without threaded connection first.

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## Tightening Specifications

Components	Tightening Specification
Antenna Amplifier Bolt to Rear Lid	2 Nm

### 3.24 Antenna Amplifier 2 - R111, Removing and Installing, Sedan

⇒ ["3.24.1 Antenna Amplifier 2 R111, Removing and Installing", page 39](#)

#### 3.24.1 Antenna Amplifier 2 R111, Removing and Installing

Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .

The Antenna Amplifier 2 - R111- is removed and installed similar to the removal and installation of the Antenna Amplifier - R24- .

- Remove or install the Antenna Amplifier 2 - R111- . Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier 2, R24, Removing and Installing .

### 3.25 GPS Antenna R50, Removing and Installing

The GPS Antenna - R50- is integrated in the Roof Antenna - RX5- and cannot be replaced separately.

- Remove and install the GPS Antenna - R50- . Refer to  
⇒ Rep. Gr. 91 ; Roof Antenna RX5, Removing and Instal-  
ling .

### 3.26 Near Field Communication Antenna R269, Removing and Installing

⇒ ["3.26.1 Near Field Communication Antenna R269, Removing  
and Installing", page 40](#)

#### 3.26.1 Near Field Communication Antenna R269, Removing and Installing

##### Removing

---

##### A5

- Remove the center speaker trim. Refer to ⇒ Body Interior;  
Rep. Gr. 70 ; Instrument Panel; Speaker Trim, Removing  
and Installing .
- 

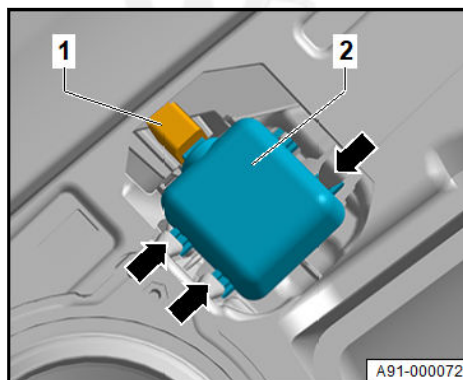
##### Continuation for all vehicles

##### A6 e-tron

- Remove the windshield. Refer to ⇒ Body Exterior; Rep.  
Gr. 64 ; Windshield; Windshield, Removing and Installing .
- 

##### Continuation for all vehicles

- Release the retaining tabs -arrows-.
- Swivel out the Near Field Communication Antenna - R269-  
-2-.
- Disconnect the connector -1-.



##### Installing

Install in reverse order of removal.

### 3.27 Satellite Tuner Antenna R172, Removing and Installing

⇒ ["3.27.1 Satellite Tuner Antenna R172, Removing and Installing", page 41](#)

#### 3.27.1 Satellite Tuner Antenna R172, Removing and Installing

The Satellite Tuner Antenna - R172- is integrated in the Roof Antenna - RX5- and cannot be replaced separately.

- Remove and install the Satellite Tuner Antenna - R172- .  
Refer to ⇒ Rep. Gr. 91 ; Roof Antenna RX5, Removing and Installing .

### 3.28 Digital Radio Antenna R183, Removing and Installing

⇒ ["3.28.1 Digital Radio Antenna R183, Removing and Installing", page 41](#)

#### 3.28.1 Digital Radio Antenna R183, Removing and Installing

The Digital Radio Antenna - R183- looks like the heating wires in the rear window.

The antenna is connected to the Antenna Amplifier 2 - R111- .

- Remove or install the Antenna Amplifier 2 - R111- . Refer to  
⇒ Rep. Gr. 91 ; Antenna Amplifier 2, R111, Removing and Installing .

### 3.29 Vehicle Interior Communication Antenna 2 R365, Removing and Installing

The Vehicle Interior Communication Antenna 2 - R365- is integrated in the Antenna Amplifier - R24- .

- Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier R24, Removing and Installing .

### 3.30 Vehicle Interior Communication Antenna 3- R406, Removing and Installing

The Vehicle Interior Communication Antenna 3 - R406- is integrated in the Antenna Amplifier 2 - R111- .

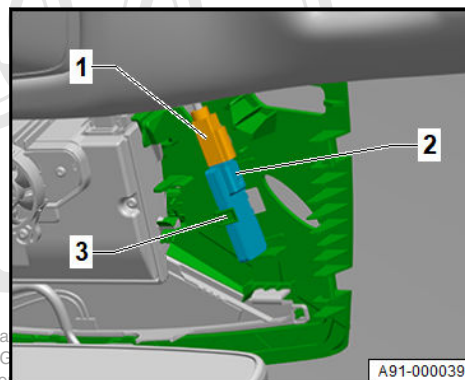
- Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier 2 R111, Removing and Installing .

### 3.31 Antenna for Internal and External Communication with Vehicle R407, Removing and Installing

#### Removing

- Remove the cover. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Interior Rearview Mirror; Overview - Interior Rearview Mirror .

- Release the retaining tab -3- and swivel out the Antenna for Internal and External Communication with Vehicle - R407-2-.
- Disconnect the antenna wire -1-.



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#### Installing

Install in reverse order of removal.

### 3.32 Antenna for External Communication with Vehicle - R387, Removing and Installing

The Antenna for External Communication with Vehicle - R387- is integrated in the Roof Antenna - RX5- and cannot be replaced separately.

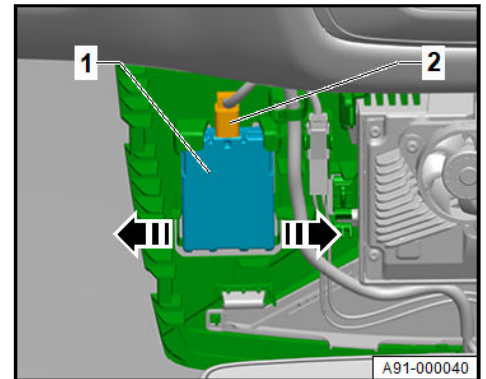
- Remove and install the Antenna for External Communication with Vehicle - R387- . Refer to ⇒ Rep. Gr. 91 ; Roof Antenna RX5, Removing and Installing .

### 3.33 Antenna 2 for External Communication with Vehicle R394, Removing and Installing

#### Removing

- Remove the cover. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Interior Rearview Mirror; Overview - Interior Rearview Mirror .

- Release the retaining tabs -arrows- and swivel out the Antenna 2 for External Communication with Vehicle - R394- -1-.
- Disconnect the antenna wire -2-.



### Installing

Install in reverse order of removal.

### 3.34 Antenna for Bluetooth Communication - R396, Removing and Installing

The Antenna for Bluetooth Communication - R396- is integrated in the Roof Antenna - RX5- and cannot be replaced separately.

- Remove and install the Antenna for Bluetooth Communication - R396- . Refer to ⇒ Rep. Gr. 91 ; Roof Antenna RX5, Removing and Installing .

### 3.35 Emergency Call Module Antenna R263, Removing and Installing

The Emergency Call Module Antenna - R263- is integrated in the Roof Antenna - RX5- and cannot be replaced separately.

- Remove and install the Emergency Call Module Antenna - R263- . Refer to ⇒ Rep. Gr. 91 ; Roof Antenna RX5, Removing and Installing .

### 3.36 Emergency Call Module Antenna 2 R322, Removing and Installing

The Emergency Call Module Antenna 2 - R216- is integrated in the Roof Antenna - RX5- and cannot be replaced separately.

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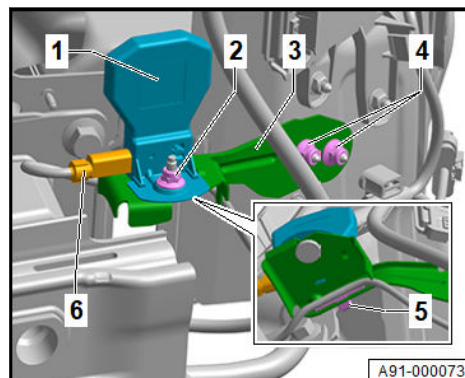
- Remove and install the Emergency Call Module Antenna 2 - R322- . Refer to ⇒ Rep. Gr. 91 ; Roof Antenna RX5, Removing and Installing .

### 3.37 Emergency Call Module Antenna 3 R323, Removing and Installing

#### Removing

- Remove the rear bumper cover. Refer to ⇒ Body Exterior; Rep. Gr. 63 ; Rear Bumper; Bumper Cover, Removing and Installing .

- Disconnect the antenna wire -6-.
- Remove the nut -2-.
- Remove the Emergency Call Module Antenna 3 - R323- -1-.
- If necessary, remove the nuts -4-, unclip the wire bracket -5- and remove the bracket -3-.



#### Installing

Install in the reverse order of removal, while noting the following:

#### Tightening Specifications

Components	Tightening Specification
Antenna on bracket	4.5 Nm
Bracket to body	4.5 Nm

### 3.38 Telephone Antenna R65, Removing and Installing, Audi phone box

⇒ [“3.38.1 Telephone Antenna R65, Removing and Installing”, page 44](#)

#### 3.38.1 Telephone Antenna R65, Removing and Installing

##### Special tools and workshop equipment required

- ◆ Drill
- ◆ Protective Eyewear
- ◆ Spiral Bit Diameter Approximately 6 mm

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## Removing

- Remove the front bumper. Refer to ⇒ Body Exterior; Rep. Gr. 63 ; Front Bumper; Bumper Cover, Removing and Installing

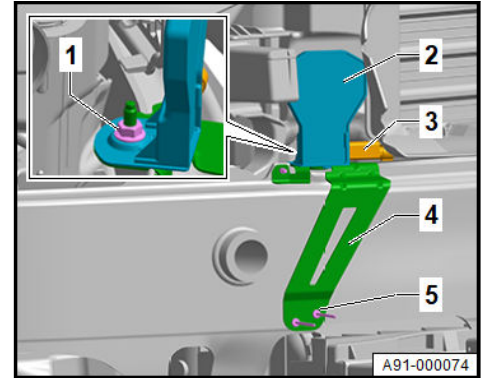
### For vehicles outside of the North American region

- Disconnect the antenna wire -3-.
- Loosen the nut -1- and remove the Telephone Antenna - R65- -2-.
- If necessary, put on protective eyewear .

#### NOTICE

**Corrosion damage and paint damage due to drilling fragments.**

- Remove all drill shavings and immediately repair any paint damage.
- Drill out three pop rivets -5- with a drill and spiral bit diameter of approximately 6 mm .
- Remove the bracket -4-.



### Continuation for all vehicles

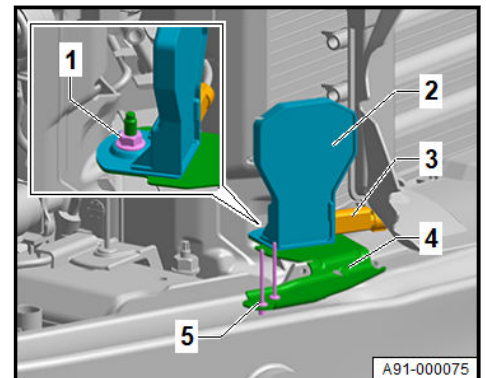
#### For vehicles in the North American region

- Disconnect the antenna wire -3-.
- Loosen the nut -1- and remove the Telephone Antenna - R65- -2-.
- If necessary, put on protective eyewear .

#### NOTICE

**Corrosion damage and paint damage due to drilling fragments.**

- Remove all drill shavings and immediately repair any paint damage.
- Drill out two pop rivets -5- with a drill and spiral bit diameter of approximately 6 mm .
- Remove the bracket -4-.



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### Continuation for all vehicles

#### Installing

Install in the reverse order of removal, while noting the following:

## Tightening Specifications

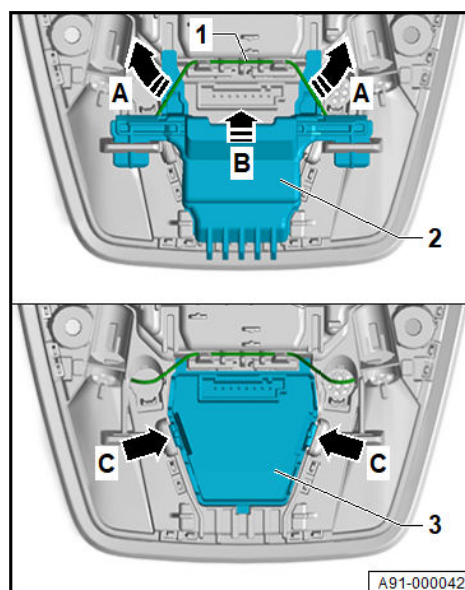
Components	Tightening Specification
Antenna on the mount	4.5 Nm

### 3.39 Microphone Unit in Front Roof Module R164, Removing and Installing

#### Removing

- Remove the Front Roof Module - WX3- . Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Controls; Front Roof Module WX3, Removing and Installing .

- Release the spring -1- -arrows A-.
- Move the locking element -2- -arrow B- and remove.
- Release the retaining tabs -arrows C- and remove the Microphone Unit in Front Roof Module - R164- -3-.



#### Installing

Install in reverse order of removal.

### 3.40 Telephone Baseplate, Removing and Installing, Audi Phone Box, Audi Phone Box Light

⇒ **“3.40.1 Telephone Baseplate, Removing and Installing”, page 46**

#### 3.40.1 Telephone Baseplate, Removing and Installing

##### Special tools and workshop equipment required

- ◆ Removal Tool for Coupling Aerial T40388

#### Tip

Integrated for 9ZV (Audi phone box light) only charger for cell phone / for 9ZE (Audi phone box) charger and pairing antenna for connecting to the cell phone network / for 2F1 (Mobile Key) additionally Near Field Communication Antenna 2 - R351-

## Removing

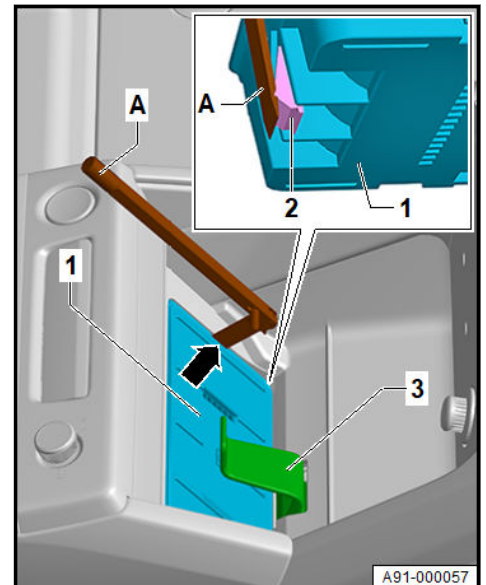
**If the Mobile Device Charger 1 - J1146- is being replaced, perform the test plan for replacing the control module:**

- Perform the “control module, replacing” function using the  
⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

## Continuation

- Turn the front part on the Removal Tool for Coupling - Aerial - T40388- -A- by 90°.
- Carefully press the rubber lip on the charger -1- using the release tool -A- -arrow- and introduce the release tool vertically from above as shown.
- Release the notch -2- and engage in the groove on the release tool -A-.
- Vertically remove the release tool -A- with charger -1-.
- Guide out the charger -1- under the cell phone clip -3-.
- Disconnect the connectors from the charger -1-.

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## Installing

Install in the reverse order of removal, while noting the following:

**If the Mobile Device Charger 1 - J1146- was replaced, complete the test plan for replacing the control module:**

- Complete the “control module, replacing” function using the  
⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

### 3.41 Cellular Telephone Amplifier R86, Removing and Installing, Audi Phone Box

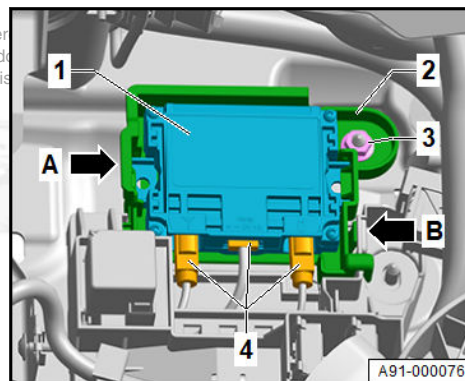
⇒ ["3.41.1 Cellular Telephone Amplifier R86, Removing and Installing", page 48](#)

#### 3.41.1 Cellular Telephone Amplifier R86, Removing and Installing

##### Removing

- Remove the footwell cover on the driver side. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Storage Compartments and Covers; Driver Side Footwell Cover, Removing and Installing .
- Remove the Vehicle Electrical System Control Module - J519- . Refer to ⇒ Electrical Equipment; Rep. Gr. 97 ; Control Modules; Vehicle Electrical System Control Module J519, Removing and Installing .

- Disconnect the connectors -4-.
- Release the retaining tab -arrow A-.
- Swivel out the Cellular Telephone Amplifier - R86- -1-.
- If necessary, loosen the nut -3-, release the retaining tab -arrow B- and remove the bracket -2-.



##### Installing

Install in reverse order of removal.

##### Tightening Specifications

Components	Tightening Specification
Nuts to bracket	3.5 Nm

### 3.42 Chip Card Reader Control Module J676, Removing and Installing

⇒ ["3.42.1 Chip Card Reader Control Module J676, Removing and Installing", page 48](#)

#### 3.42.1 Chip Card Reader Control Module J676, Removing and Installing

##### Removing

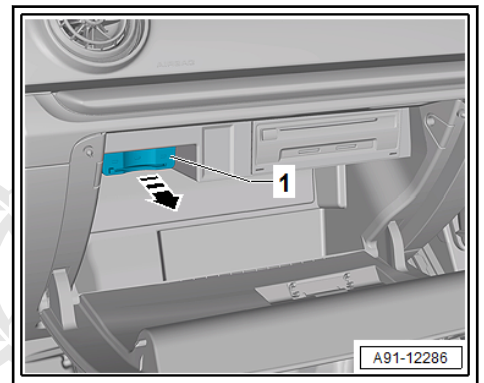
If the control module is replaced, the test plan to replace the control module must be performed.

- Perform the “control module, replacing” function using the ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

#### Continuation

- Open the glove compartment.
- Remove the chip card from the Chip Card Reader Control Module - J676- .

- Push the control module -1- toward the rear -arrow- until it can be removed.
- Disconnect the connectors on the control module -1-.



#### Installing

Install in the reverse order of removal, while noting the following:

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- Engage all retaining tabs into the trim at the control module.

### 3.43 Left/Right Multifunction Buttons on Steering Wheel E440 / E441, Removing and Installing

The Multifunction Steering Wheel Control Module - J453- is located under the Right Multifunction Buttons on Steering Wheel - E441- and cannot be replaced separately.

#### Tip

The Multifunction Button on Steering Wheel - E441- / Left Multifunction Buttons on Steering Wheel - E440- will be called multifunction button in the information that follows.

## Removing

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**If the control module is replaced, the test plan to replace the control module must be performed.**

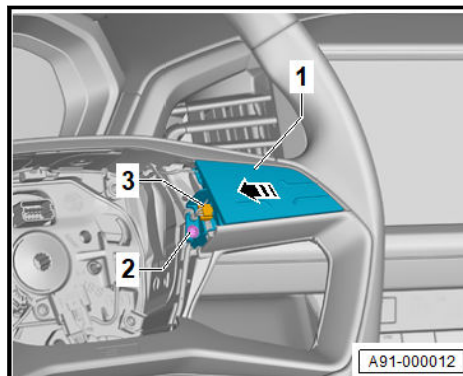
- Perform the “control module, replacing” function using the  
⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .
- 

## Continuation

- Remove the airbag unit with Driver Airbag Igniter - N95- .  
Refer to ⇒ Body Interior; Rep. Gr. 69 ; Driver Airbag; Airbag Unit with Driver Airbag Igniter N95, Removing and Installing .
- 

- Draw sketches or take pictures of the wire routing in the steering wheel.
- 

- Disconnect the connector -3- and guide it out.
- Remove the bolt -2-.
- Remove the multifunction button -1- -arrow-, until the other connectors are accessible.
- Disconnect the connectors from the multifunction button -1-.



## Installing

Install in the reverse order of removal, while noting the following:

---

- Using the sketches/pictures made during removal, reroute the wires.
- 

## Tightening Specifications

- ◆ Refer to ⇒ Rep. Gr. 91 ; Overview - Multifunction Steering Wheel .

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### 3.44 Upshift and Downshift Paddle Switch E755/ E756, Removing and Installing

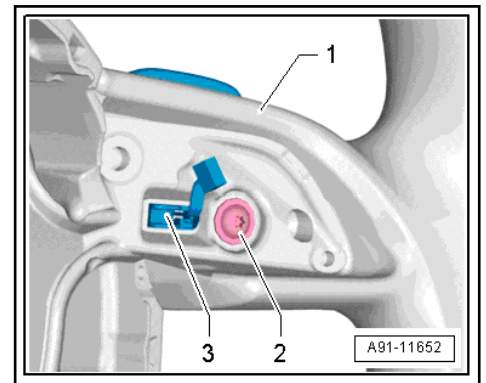
#### Tip

The Upshift Paddle Switch - E755- / Downshift Paddle Switch - E756- will be called paddle switch in the information that follows.

#### Removing

- Remove the Right/Left Multifunction Buttons on Steering Wheel - E441- / Left Multifunction Buttons on Steering Wheel - E440- . Refer to ⇒ Rep. Gr. 91 ; Multifunction Buttons on Steering Wheel E441/E440, Removing and Installing .

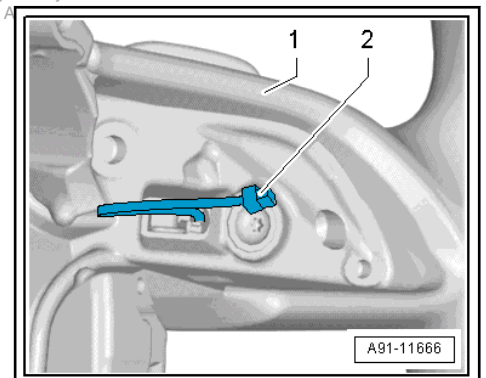
- Remove the bolt -2-.
- Remove the paddle switch -3- with the connecting cable.



#### Installing

Install in the reverse order of removal, while noting the following:

- Pay attention to the location of the connecting cable -2- to the multifunction button.





## Tightening Specifications

- ◆ Refer to ⇒ Rep. Gr. 91 ; Overview - Multifunction Steering Wheel .

## 3.45 USB Connection 1 U41, Removing and Installing

### Removing

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**If the USB Connection 1 - U41- is replaced, perform the test plan for replacing the control module:**

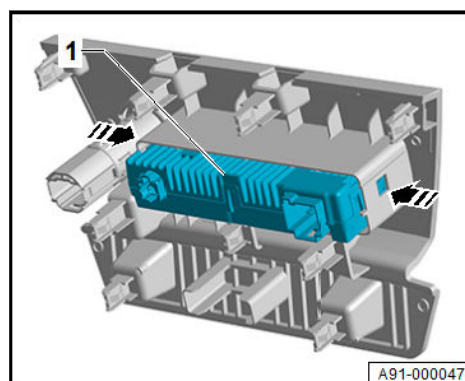
- Perform the “control module, replacing” function using the ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .
- 

### Continuation

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- Remove the center console front trim. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Center Console; Center Console Front Trim, Removing and Installing .
- 

- Release the retaining tabs -arrows- and remove the USB connection -1-.



### Installing

Install in the reverse order of removal, while noting the following:

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**If the USB Connection 1 - U41- was replaced, complete the test plan for replacing the control module:**

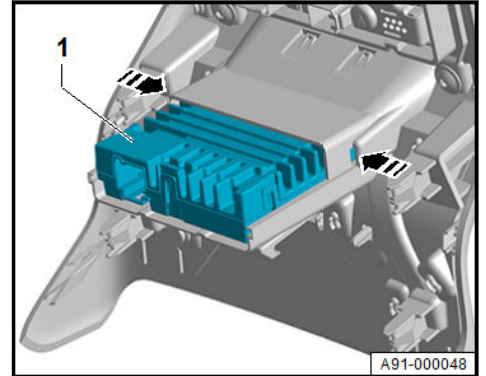
- Complete the “control module, replacing” function using the ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .



### 3.46 USB Charging Socket 1 -U37-, Removing and Installing

#### Removing

- Remove the center console rear trim. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Center Console; Center Console Rear Trim, Removing and Installing .
- Release the retaining tabs -arrows- and remove the USB charging socket -1-.



#### Installing

Install in reverse order of removal.

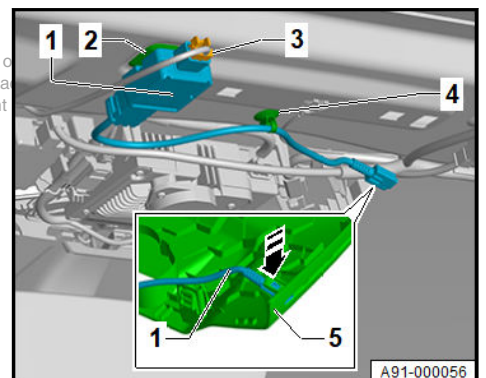
### 3.47 USB Charging Socket in Headliner - U104, Removing and Installing

⇒ ["3.47.1 USB Charging Socket in Headliner - U104, Removing and Installing", page 53](#)

#### 3.47.1 USB Charging Socket in Headliner - U104, Removing and Installing

##### Removing

- Remove the cover -5- until the USB connection -1- is accessible. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Interior Rearview Mirror, Overview - Interior Rearview Mirror
- Release the retaining tab -arrow- and remove the USB connection -1-.
- Unclip the headliner in the front area up to and including the B-pillar and carefully lower. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Roof Trim Panels; Headliner, Lowering .
- Disconnect the connector -3-.
- Release the USB Charging Socket in Headliner - U104- -1- from the clips -2- and -4-.



##### Installing

Install in reverse order of removal.

### 3.48 Control Module for Emergency Call Module and Communication Unit J949, Removing and Installing

#### Removing

---

If the Control Module for Emergency Call Module and Communication Unit - J949- is being replaced, perform the test plan for replacing the control module:

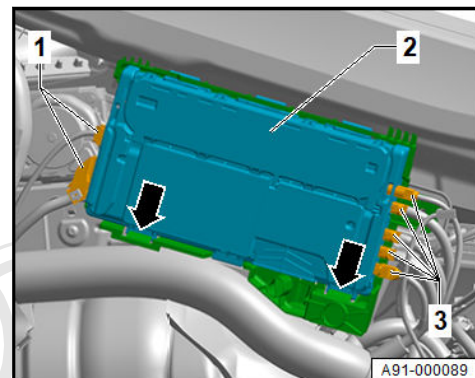
- Perform the "control module, replacing" function using the  
⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .
- 

#### Continuation

- Remove the right luggage compartment side trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Luggage Compartment Side Trim Panel, Removing and Installing .
- 

#### For sedan

- Remove the bracket for the D-pillar trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; Overview - D-Pillar Trim Panel .
- Disconnect the connectors -1- and -3-.
- Release the retaining tabs -arrows- and remove the control module -2-.

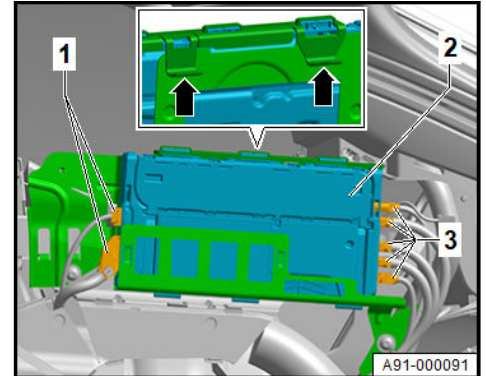


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## Continuation for all vehicles

### For Avant

- Remove the railing. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; Overview - D-pillar Trim Panel .
- Disconnect the connectors -1- and -3-.
- Loosen the retainers -arrows- and remove the upper part of the bracket.
- Remove the control module -2- upward.



## Continuation for all vehicles

### Installing

Install in the reverse order of removal, while noting the following:

If the Control Module for Emergency Call Module and Communication Unit - J949- was replaced, complete the test plan for replacing the control module:

- Complete the “control module, replacing” function using the ⇒ Vehicle diagnostic tester. Refer to ⇒ Rep. Gr. 00 ; Diagnostic Entries .

## 3.49 Bracket for Control Module for Emergency Call Module and Communication Unit, Removing and Installing

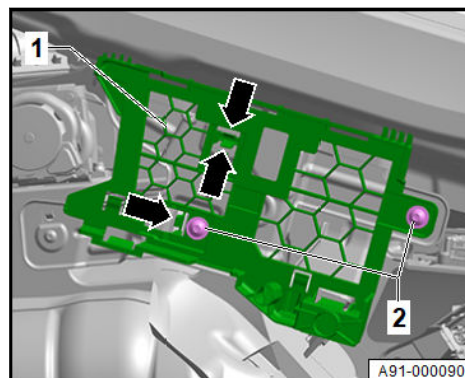
### Removing

- Remove the Control Module for Emergency Call Module and Communication Unit - J949- . Refer to ⇒ Rep. Gr. 91 ; Control Module for Emergency Call Module and Communication Unit, J949, Removing and Installing .

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#### For sedan

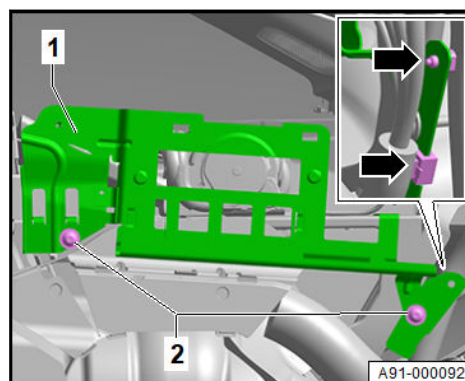
- Remove the bolts -2-.
- Release the retaining tabs -arrows- and disengage and remove the bracket -1- on the body.



#### Continuation for all vehicles

##### For Avant

- Loosen the wiring bracket -arrows-.
- Detach the bolts -2- and remove the bracket -1- upward.



#### Continuation for all vehicles

##### Installing

Install in the reverse order of removal, while noting the following:

#### Tightening Specifications

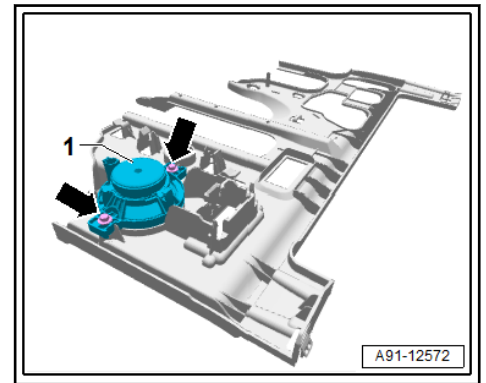
Components	Tightening Specification
Bracket to body	8 Nm

### 3.50 Emergency Call Module Speaker R335, Removing and Installing

#### Removing

- Remove the footwell cover on the driver side. Refer to  
 ⇒ Body Interior; Rep. Gr. 68 ; Storage Compartments and  
 Covers; Driver Side Footwell Cover, Removing and Instal-  
 ling .

- Disconnect the connector on the Emergency Call Module Speaker - R335- -1-.
- Remove the bolts -arrows-.
- Remove the speaker -1-.



### Installing

Install in the reverse order of removal, while noting the following:

### Tightening Specifications

Components	Tightening Specification
Speaker on the footwell cover	2 Nm

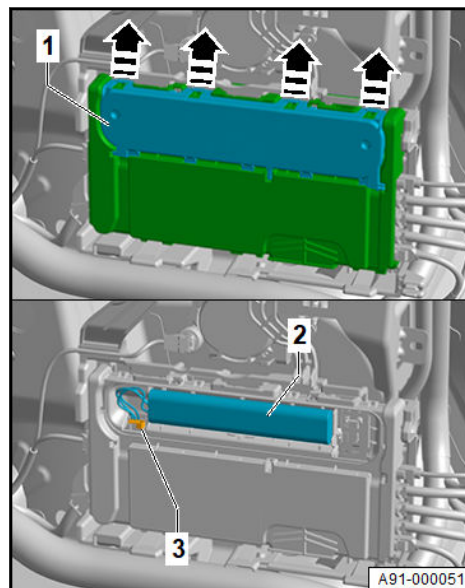
## 3.51 Telematics Emergency Battery A16, Removing and Installing

### Removing

- Remove the right luggage compartment side trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Luggage Compartment Side Trim Panel, Removing and Installing .

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- Open the tabs -arrows- and remove the cover -1-.
- Release the connector -3-.
- Remove the Telematics Emergency Battery - A16- -2-.



## Installing

Install in reverse order of removal.

### 3.52 Telephone Antenna Module, Telematics - RX23, Removing and Installing

⇒ [“3.52.1 Telephone Antenna Module, Telematics - RX23, Removing and Installing”, page 58](#)

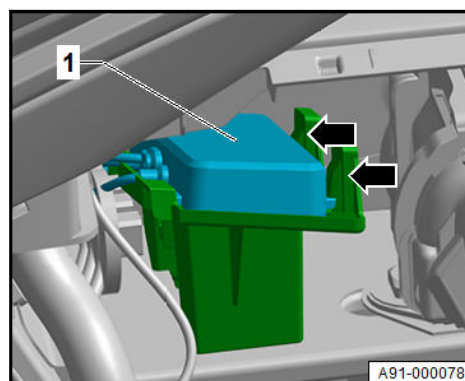
⇒ [“3.52.2 Bracket for Telephone Antenna Module, Telematics - RX23, Removing and Installing”, page 59](#)

#### 3.52.1 Telephone Antenna Module, Telematics - RX23, Removing and Installing

##### Removing

- Remove the railing. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; Overview - D-pillar Trim Panel .

- Unclip and disconnect the antenna wires.
- Release the retaining tabs -arrows-.
- Swivel out the Telephone Antenna Module, Telematics - RX23- -1-.



## Installing

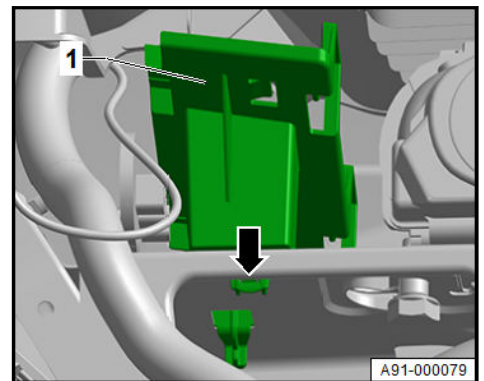
Install in reverse order of removal.

### 3.52.2 Bracket for Telephone Antenna Module, Telematics - RX23, Removing and Installing

#### Removing

- Remove the Telephone Antenna Module, Telematics - RX23-. Refer to ⇒ Rep. Gr. 91 ; Telephone Antenna Module, Telematics - RX23, Removing and Installing .

- Release the retaining tab -arrow-.
- Disengage and remove the bracket -1- on the body.



## Installing

Install in reverse order of removal.

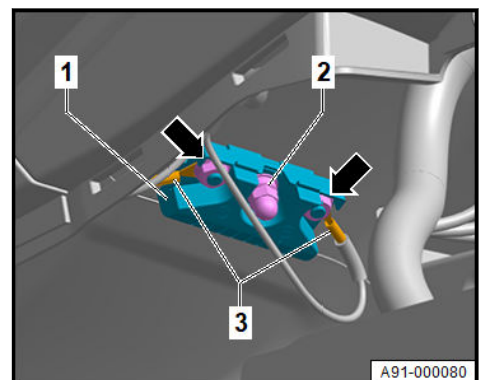
### 3.53 Windshield Antenna Suppression Filter C18, Removing and Installing

#### Removing

- Remove the railing. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; Overview - D-pillar Trim Panel .

- Loosen the nuts -arrows- and remove the wires-3-.
- Loosen the cap nut -2- and remove the Windshield Antenna Suppression Filter - C18- -1-.

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## Installing

Installation is performed in reverse order of removal, noting the following:

## Tightening Specifications

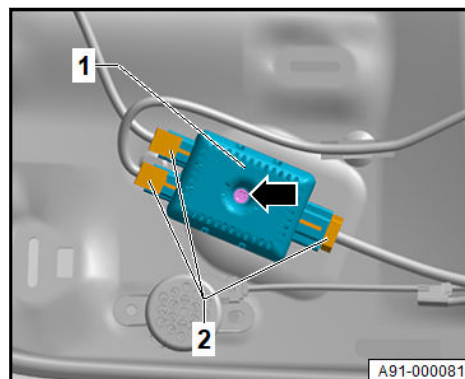
Components	Tightening Specification
Nuts on Windshield Antenna Suppression Filter - C18-	9 Nm
Cap nut on body	9 Nm

## 3.54 AM Frequency Filter R177, Removing and Installing

### Removing

- Remove the rear lid trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Rear Lid Lower Trim Panel, Removing and Installing .

- Disconnect the connectors -2-.
- Loosen the bolt -arrow- and remove the AM Frequency Filter - R177- -1-.



### Installing

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Installation is performed in reverse order of removal, noting the following:

## Tightening Specifications

Components	Tightening Specification
Bolt on AM Frequency Filter - R177-	6 Nm



### 3.55 Toll Registration Sensor - G459, Removing and Installing

⇒ ["3.55.1 Toll Registration Sensor - G459, Removing and Installing", page 61](#)

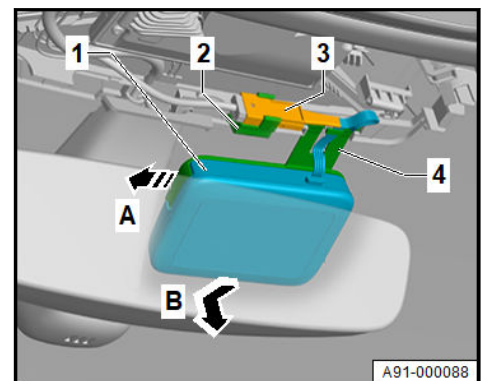
#### 3.55.1 Toll Registration Sensor - G459, Removing and Installing

##### Removing

- Remove the cover. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Interior Rearview Mirror; Overview - Interior Rearview Mirror .

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- Disconnect the connector -3-.
- Unclip the connector -3- from the bracket -2-.
- Release the retainer on the bracket -4- -arrow A- and remove the Toll Registration Sensor - G459- -1- from the bracket -4- -arrow B-.



##### Installing

Install in reverse order of removal.

## 4 Infotainment System

⇒ "4.1 Overview - Infotainment System", page 62

### 4.1 Overview - Infotainment System

Component	Component Location Overview	Removing and installing
Volume Control 1 - E980-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Volume Control 1 - E980, Removing and Installing .
Front Information Display Control Head - J685-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Front Information Display Control Head J685, Removing and Installing .
Information Electronics Control Module 1 - J794-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Information Electronics Control Module 1 J794, Removing and Installing .
Front Information Display Control Head 2 - J1060- , JH1	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Front Information Display Control Head 2 - J1060, Removing and Installing .



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## 5 Sound System

⇒ "5.1 Overview - Sound System", page 63

### 5.1 Overview - Sound System

Component	Component Location Overview	Removing and installing
Digital Sound System Control Module - J525- , 9VS/8RT	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Digital Sound System Control Module J525, Removing and Installing
Digital Sound System Control Module 2 - J787- , 8RT	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Digital Sound System Control Module 2 J787, Removing and Installing .
Information Electronics Control Module 1 - J794-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Information Electronics Control Module 1 J794, Removing and Installing .
Left Rear Treble Speaker - R14- / Right Rear Treble Speaker - R16-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Left and Right Rear Treble Speaker R14/R16, Removing and Installing .
Left Rear Bass Speaker - R15- / Right Rear Bass Speaker - R17-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Left and Right Rear Bass Speaker R15/R17, Removing and Installing .
Left Front Treble Speaker - R20- / Right Front Treble Speaker - R22-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Left and Right Front Treble Speaker R20/R22, Removing and Installing .
Left Front Bass Speaker - R21- / Right Front Bass Speaker - R23-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Left and Right Front Bass Speaker R21/R23, Removing and Installing .
Interior Microphone - R74- , 9VS/8RT	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Interior Microphone R74, Removing and Installing .

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Component	Component Location Overview	Removing and installing
Left Front Midrange Speaker - R103- / Right Front Midrange Speaker - R104- , 9VS/8RT	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Left and Right Front Midrange Speaker R103/R104, Removing and Installing .
Left Effects Speaker - R209- / Right Effects Speaker - R210- , 9VS/8RT	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Left and Right Effects Speaker R209/R210, Removing and Installing .
Left Front Midrange Speaker 2 - R276- / Right Front Midrange Speaker 2 - R277- , 9VS/8RT	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Midrange Speaker 2 in the Front - R276/R277, Removing and Installing .
Speaker 1 in Left Front Headrest - R317- / Speaker 2 in Left Front Headrest - R318- / Speaker 1 in Right Front Headrest - R319- / Speaker 2 in Right Front Headrest - R320-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ <a href="#">"3.19.1 Speaker in the Left/Right Front Headrest R317/R318/R319/R320, Removing and Installing", page 35</a>
Center Front Speaker - RX25-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Center Front Speaker - RX25, Removing and Installing .
Subwoofer - RX28-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Subwoofer RX28, Removing and Installing .

## 6 Antenna Systems

⇒ "6.1 Overview - Antenna Systems", page 65

### 6.1 Overview - Antenna Systems

Component	Component Location Overview	Removing and installing
Windshield Antenna Suppression Filter - C18-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Windshield Antenna Suppression Filter C18, Removing and Installing .
Antenna Amplifier R24-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier R24, Removing and Installing .
GPS Antenna - R50-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; GPS Antenna R50, Removing and Installing .
Telephone Antenna - R65- , 9ZE	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Front Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Telephone Antenna R65, Removing and Installing, Audi phone box .
Antenna Amplifier 2 - R111-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier 2 R111, Removing and Installing .
Satellite Tuner Antenna - R172- , QV3 and ER3	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Satellite Tuner Antenna R172, Removing and Installing .
Antenna - R11- and Radio Antenna 2 - R93-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Body Exterior; Rep. Gr. 64 ; Rear Window; Rear Window, Removing and Installing, Q6 e-tron .
AM Frequency Filter - R177-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; AM Frequency Filter R177, Removing and Installing .

Component	Component Location Overview	Removing and installing
Emergency Call Module Antenna - R263-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Antenna R263, Removing and Installing .
Near Field Communication Antenna - R269- , ER5	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Near Field Communication Antenna R269, Removing and Installing .
Emergency Call Module Antenna 2 - R322-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Antenna 2 R322, Removing and Installing .
Emergency Call Module Antenna 3 - R323-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Antenna 3 R323, Removing and Installing .
Vehicle Interior Communication Antenna 2 - R365-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Vehicle Interior Communication Antenna 2 R365, Removing and Installing .
Antenna for External Communication with Vehicle - R387-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ <a href="#">"3.32 Antenna for External Communication with Vehicle - R387, Removing and Installing", page 42</a>
Antenna 2 for External Communication with Vehicle - R394-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle	Refer to ⇒ <a href="#">"3.33 Antenna 2 for External Communication with Vehicle R394, Removing and Installing", page 42</a>
Antenna for Bluetooth Communication - R396-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ <a href="#">"3.34 Antenna for Bluetooth Communication - R396, Removing and Installing", page 43</a>
Vehicle Interior Communication Antenna 3 - R406-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Vehicle Interior Communication Antenna 3 - R406, Removing and Installing .

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Component	Component Location Overview	Removing and installing
Antenna for External Communication with Vehicle - R407-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ <a href="#">"3.31 Antenna for Internal and External Communication with Vehicle R407, Removing and Installing", page 42</a>
Roof Antenna - RX5-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Roof Antenna -RX5-, Removing and Installing
Telephone Antenna Module, Telematics - RX23- , ER6	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Telephone Antenna Module, Telematics - RX23, Removing and Installing

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## 7 Radio

⇒ "7.1 Overview - Radio", page 68

### 7.1 Overview - Radio

Component	Component Location Overview	Removing and installing
Front Information Display Control Head - J685-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Front Information Display Control Head J685, Removing and Installing .
Information Electronics Control Module 1 - J794-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Information Electronics Control Module 1 J794, Removing and Installing .
Antenna Amplifier - R24-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier R24, Removing and Installing .
Antenna Amplifier 2 - R111-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Antenna Amplifier 2 R111, Removing and Installing .
Satellite Tuner Antenna - R172- , QV3 and ER3	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Satellite Tuner Antenna R172, Removing and Installing .
Digital Radio Antenna - R183- , QV3 and ER1/ER2/ED4, QV0 and ER7	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Digital Radio Antenna R183, Removing and Installing .



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## 8 Telephone System

⇒ "8.1 Overview - Telephone", page 69

### 8.1 Overview - Telephone

Component	Component Location Overview	Removing and installing
Information Electronics Control Module 1 - J794-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Information Electronics Control Module 1 J794, Removing and Installing .
Mobile Device Charger 1 - J1146- , 9ZE/9ZV	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Telephone Baseplate, Removing and Installing .
Telephone Antenna - R65- , 9ZE	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Front Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Telephone Antenna R65, Removing and Installing .
Cellular Telephone Amplifier - R86- , 9ZE	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Cellular Telephone Amplifier R86, Removing and Installing .



## 9 Navigation System

⇒ "9.1 Overview - Navigation System", page 70

### 9.1 Overview - Navigation System

Component	Component Location Overview	Removing and installing
Chip Card Reader Control Module - J676- , ER5	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Chip Card Reader Control Module J676, Removing and Installing .
Front Information Display Control Head - J685-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Front Information Display Control Head J685, Removing and Installing .
Information Electronics Control Module 1 - J794-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Information Electronics Control Module 1 J794, Removing and Installing .
GPS Antenna - R50-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; GPS Antenna R50, Removing and Installing .
Near Field Communication Antenna - R269- , ER5	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Near Field Communication Antenna R269, Removing and Installing .

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## 10 Multifunction Steering Wheel

⇒ [“10.1 General Information - Multifunction Steering Wheel”, page 71](#)

⇒ [“10.2 Overview - Multifunction Steering Wheel”, page 71](#)

### 10.1 General Information - Multifunction Steering Wheel

Component	Component Location Overview	Removing and installing
Left Multifunction Buttons on Steering Wheel - E440- / Right Multifunction Buttons on Steering Wheel - E441-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Right and Left Multifunction Buttons on Steering Wheel E441/E440, Removing and Installing .
Upshift Paddle Switch - E755- / Downshift Paddle Switch - E756-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Upshift and Downshift Paddle Switch E755/E756, Removing and Installing .
Steering Wheel Touch Recognition Control Module - J1158-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 48 ; Steering Wheel; Steering Wheel, Removing and Installing .

### 10.2 Overview - Multifunction Steering Wheel



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**1 - Downshift Paddle Switch - E756-**

- ❑ Refer to ⇒ Rep. Gr. 91 ; Upshift and Downshift Paddle Switch E755/E756, Removing and Installing .

**2 - Upshift Paddle Switch - E755-**

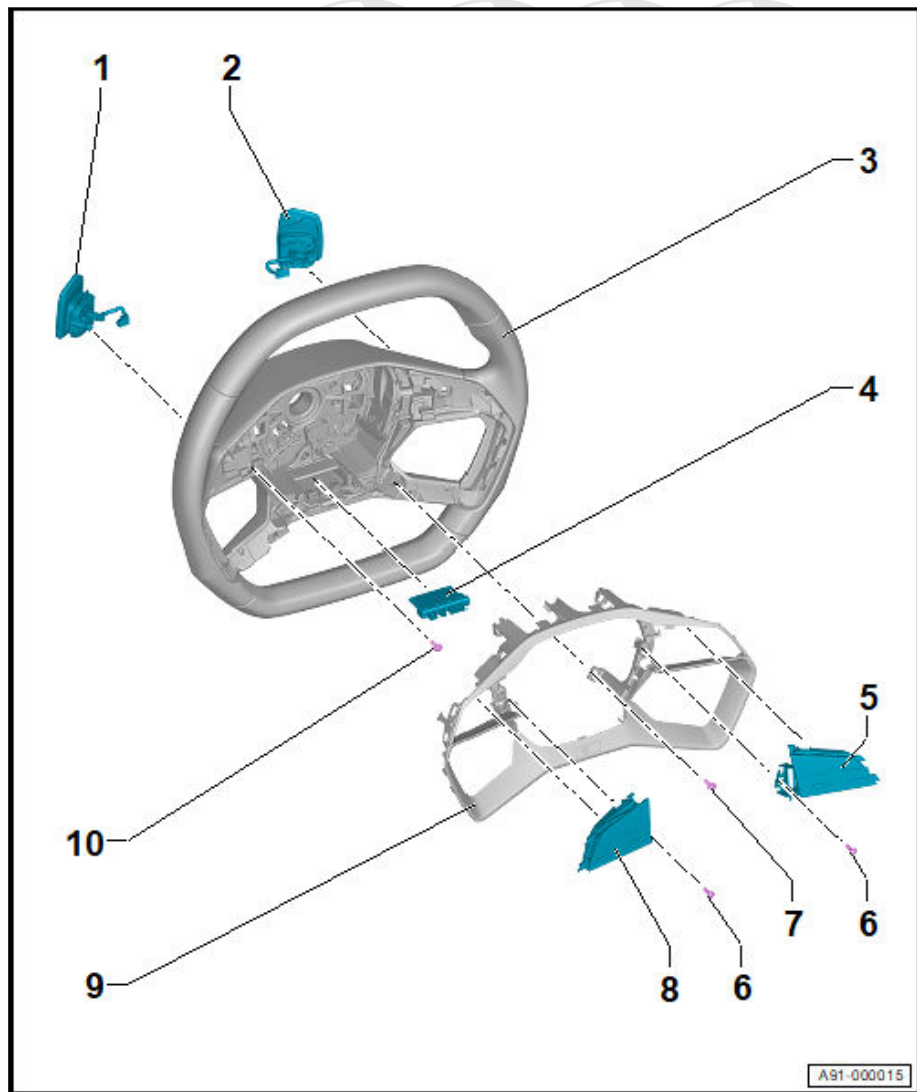
- ❑ Refer to ⇒ Rep. Gr. 91 ; Upshift and Downshift Paddle Switch E755/E756, Removing and Installing .

**3 - Steering Wheel**
**4 - Steering Wheel Touch Recognition Control Module - J1158-**

- ❑ Cannot be replaced separately
- ❑ Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 48 ; Steering Wheel; Steering Wheel, Removing and Installing .

**5 - Right Multifunction Buttons on Steering Wheel - E441-**

- ❑ With Multifunction Steering Wheel Control Module - J453-
- ❑ Refer to ⇒ Rep. Gr. 91 ; Left/Right Multifunction Buttons on Steering Wheel -E440/-E441-, Removing and Installing .


**6 - Bolt**

- ❑ 2.3 Nm

**7 - Bolt**

- ❑ Quantity: 4
- ❑ 3.5 Nm

**8 - Left Multifunction Buttons on Steering Wheel - E440-**

- ❑ Refer to ⇒ Rep. Gr. 91 ; Left/Right Multifunction Buttons on Steering Wheel -E440/-E441-, Removing and Installing .

**9 - Trim**
**10 - Bolt**

- ❑ For the Upshift Paddle Switch - E755- / Downshift Paddle Switch - E756- on the steering wheel
- ❑ 1.3 Nm

## 11 Connection for External Multimedia Devices

⇒ [“11.1 General Information - External Multimedia Devices”, page 73](#)

### 11.1 General Information - External Multimedia Devices

Component	Component Location Overview	Removing and installing
Information Electronics Control Module 1 - J794-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Information Electronics Control Module 1 J794, Removing and Installing .
USB Charging Socket 1 - U37-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; USB Charging Socket 1 -U37-, Removing and Installing
USB Connection 1 - U41-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; USB Connection 1 U41, Removing and Installing .
USB Charging Socket in Headliner - U104-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ <a href="#">“3.47.1 USB Charging Socket in Headliner - U104, Removing and Installing”, page 53</a>

## 12 Mobile Online Services

⇒ "12.1 Overview - Online Services", page 74

### 12.1 Overview - Online Services

Component	Component Location Overview	Removing and installing
Telephone/Telematics Control Module - J526- , ER5	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Telephone/Telematics Control Module J526, Removing and Installing .
Control Module for Emergency Call Module and Communication Unit - J949- with Telematics Emergency Battery - A16-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module and Communication Unit J949, Removing and Installing and ⇒ Rep. Gr. 91 ; Emergency Battery A16, Removing and Installing .
GPS Antenna - R50-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; GPS Antenna R50, Removing and Installing .
Microphone Unit in Front Roof Module - R164-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Microphone Unit in Front Roof Module R164, Removing and Installing .
Emergency Call Module Antenna - R263-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Antenna R263, Removing and Installing .
Emergency Call Module Antenna 2 - R322-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Antenna 2 R322, Removing and Installing .
Emergency Call Module Antenna 3 - R323-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Antenna 3 R323, Removing and Installing .

Component	Component Location Overview	Removing and installing
Emergency Call Module Speaker - R335-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Emergency Call Module Speaker R335, Removing and Installing .
Vehicle Interior Communication Antenna 2 - R365-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Vehicle Interior Communication Antenna 2 R365, Removing and Installing .
Antenna for External Communication with Vehicle - R387-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ <a href="#">"3.32 Antenna for External Communication with Vehicle - R387, Removing and Installing", page 42</a>
Antenna 2 for External Communication with Vehicle - R394-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ <a href="#">"3.33 Antenna 2 for External Communication with Vehicle R394, Removing and Installing", page 42</a>
Antenna for Bluetooth Communication - R396-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ <a href="#">"3.34 Antenna for Bluetooth Communication - R396, Removing and Installing", page 43</a>
Vehicle Interior Communication Antenna 3 - R406-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Vehicle Interior Communication Antenna 3 - R406, Removing and Installing .
Antenna for External Communication with Vehicle - R407-	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Center Section of Vehicle .	Refer to ⇒ <a href="#">"3.31 Antenna for Internal and External Communication with Vehicle R407, Removing and Installing", page 42</a>
Telephone Antenna Module, Telematics - RX23- , ER6	Refer to ⇒ Rep. Gr. 91 ; Component Location Overview - Components/Control Modules in Rear Section of Vehicle .	Refer to ⇒ Rep. Gr. 91 ; Telephone Antenna Module, Telematics - RX23, Removing and Installing .

# Cautions & Warnings

**Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.**

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Audi retailer or other qualified shop. We especially urge you to consult an authorized Audi retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Audi.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Audi is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Audi retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the Audi Factory Approved Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.



## Cautions & Warnings

- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.
- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly, do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Audi specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.

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# Cautions & Warnings

- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Audi Service technicians should test, disassemble or service the airbag system.
- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Audi Service technicians using the Audi Factory Approved Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

**I have read and I understand these Cautions and Warnings.**

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